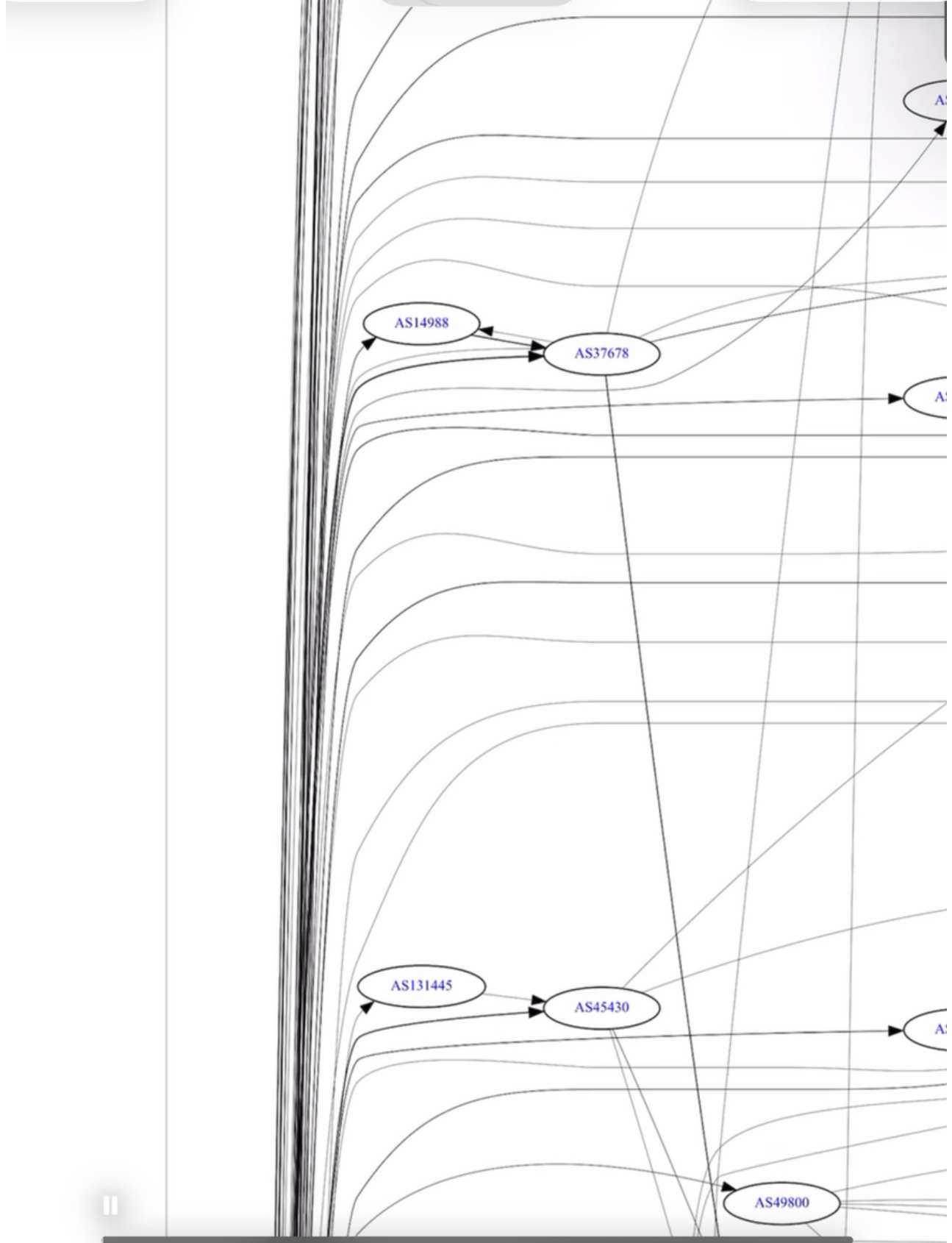
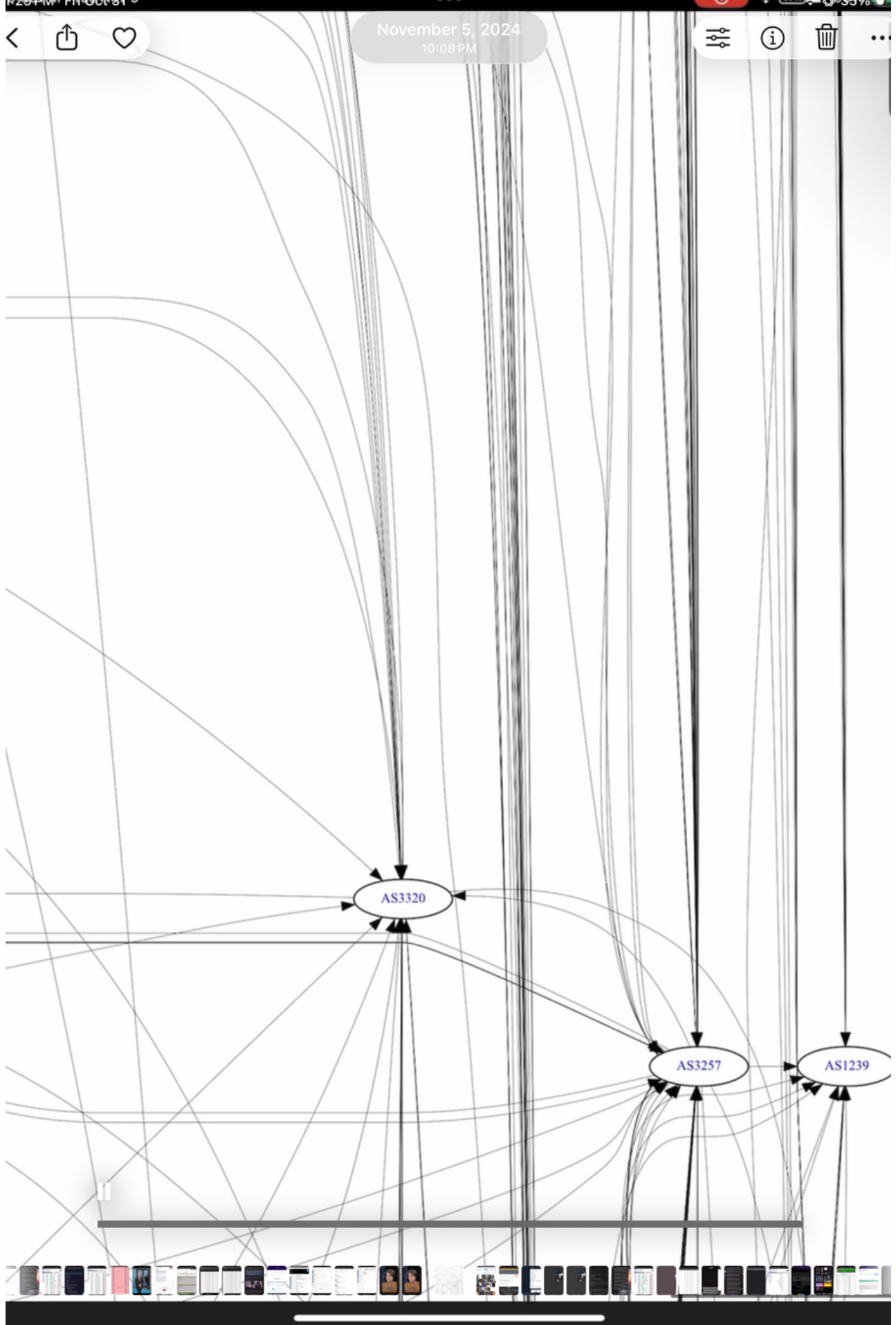


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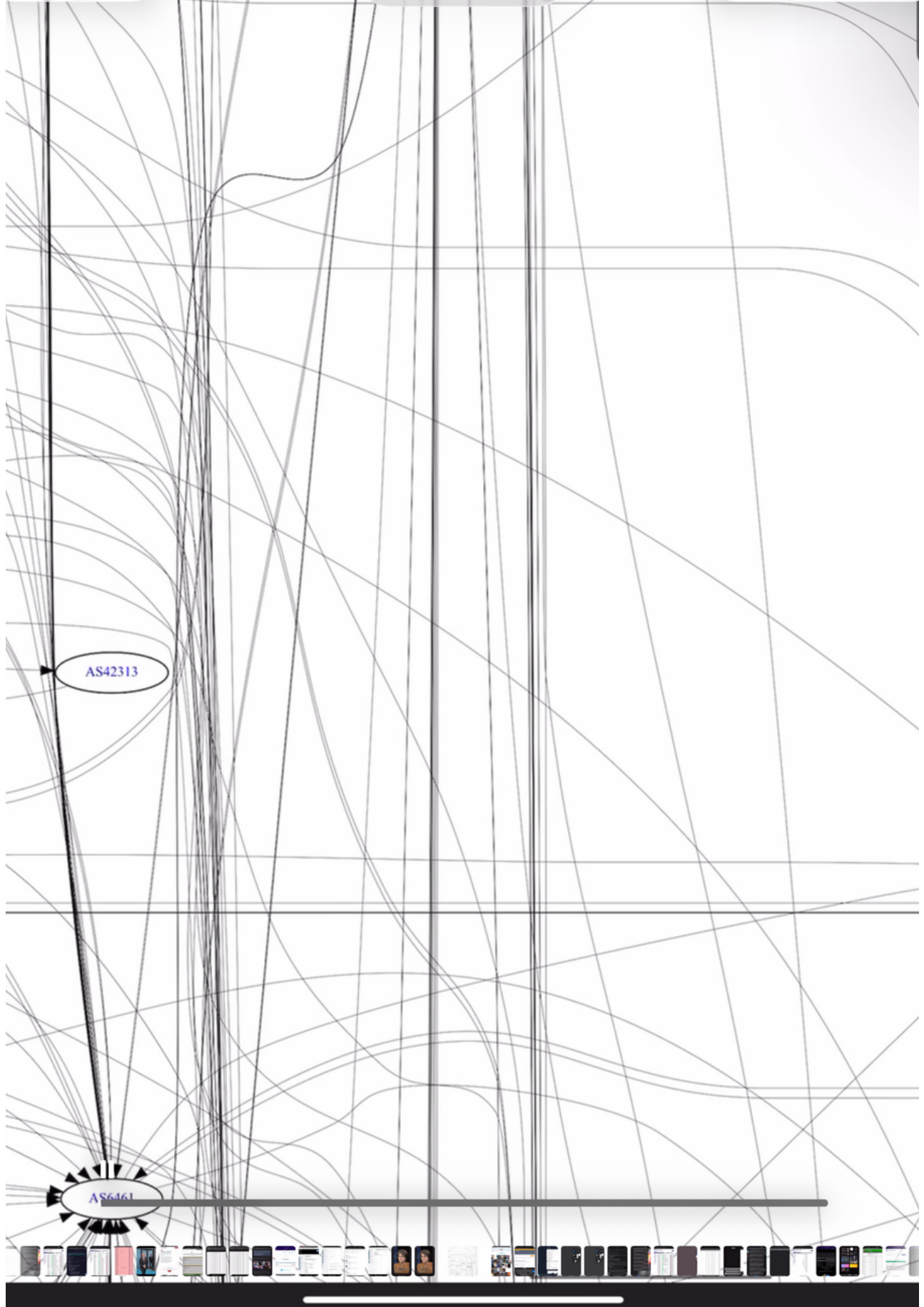
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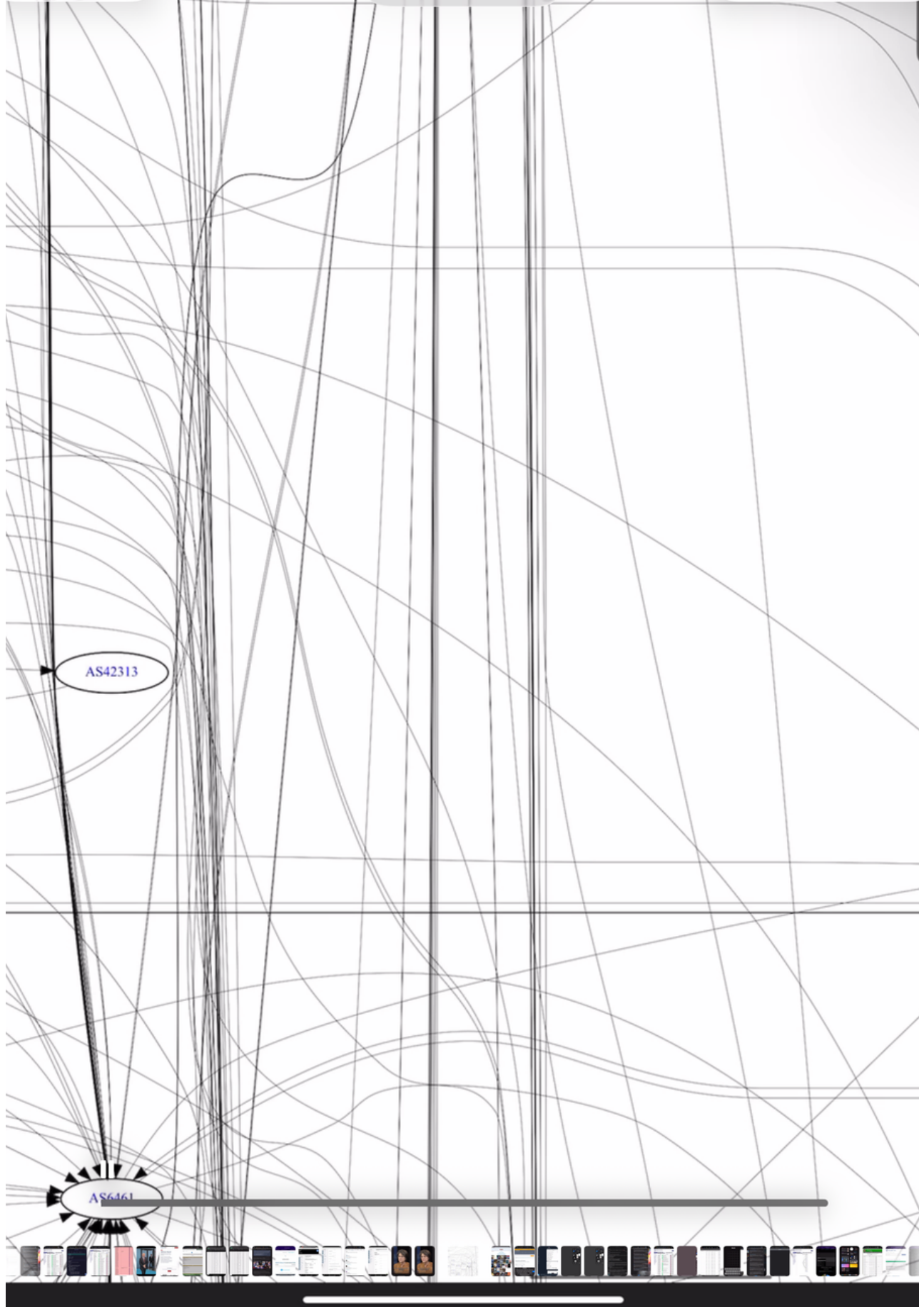
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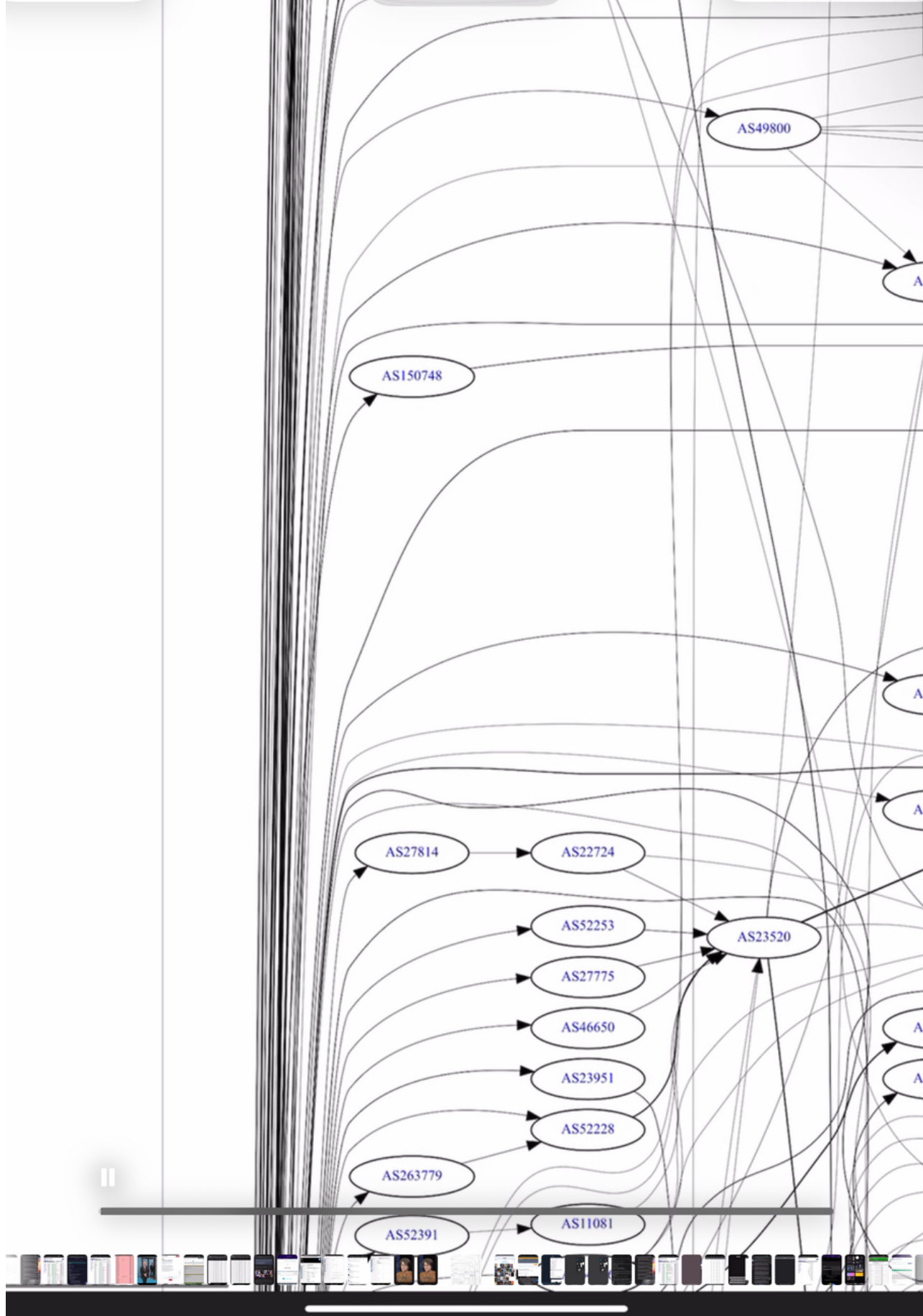


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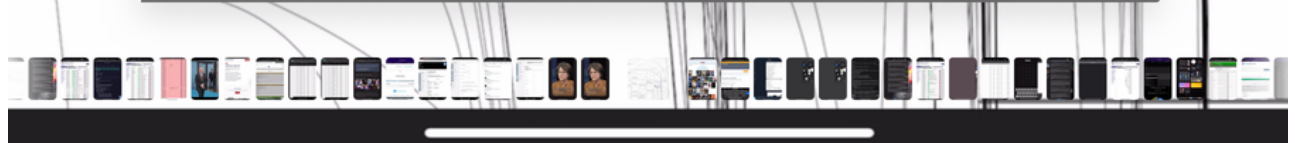
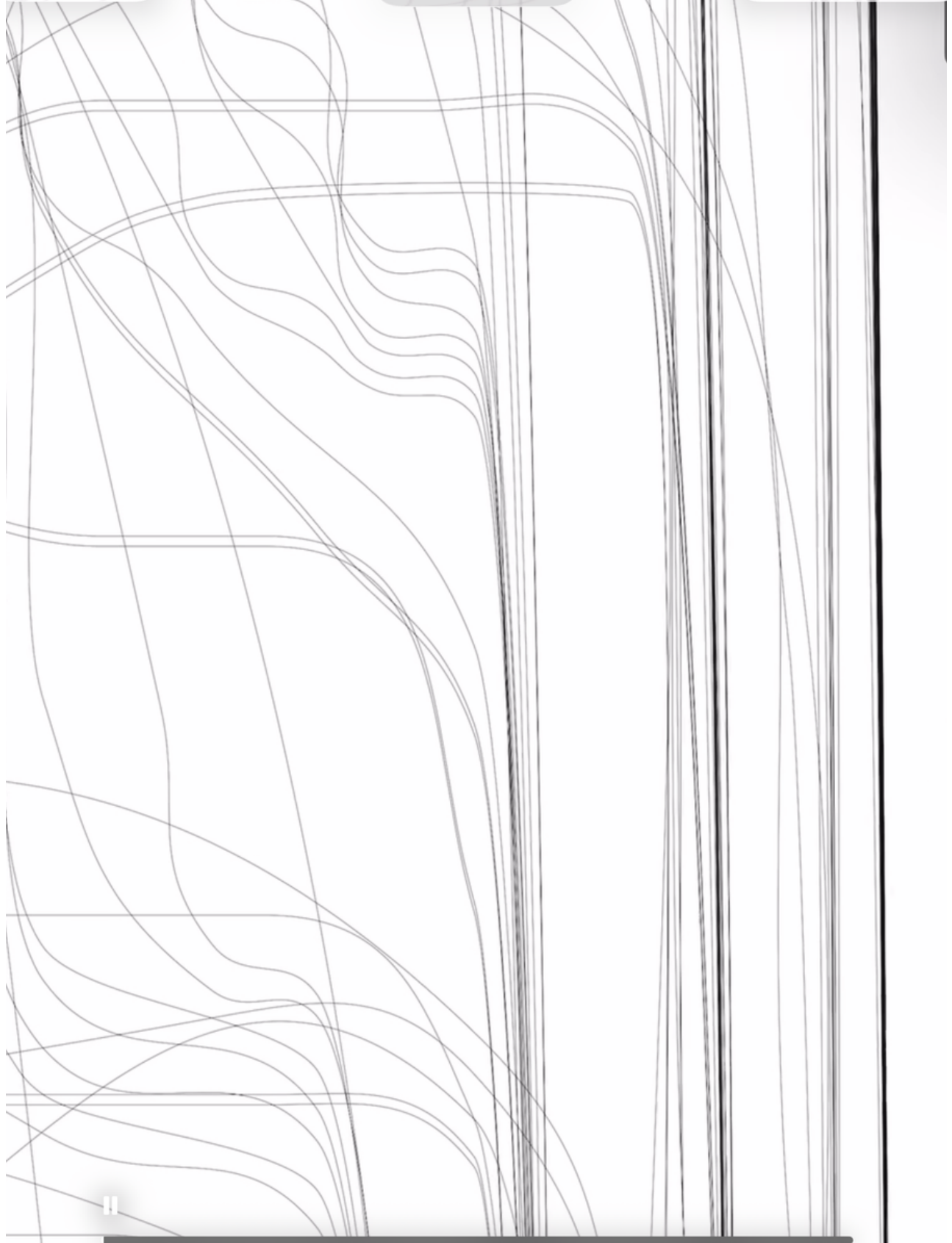
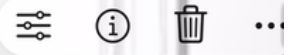


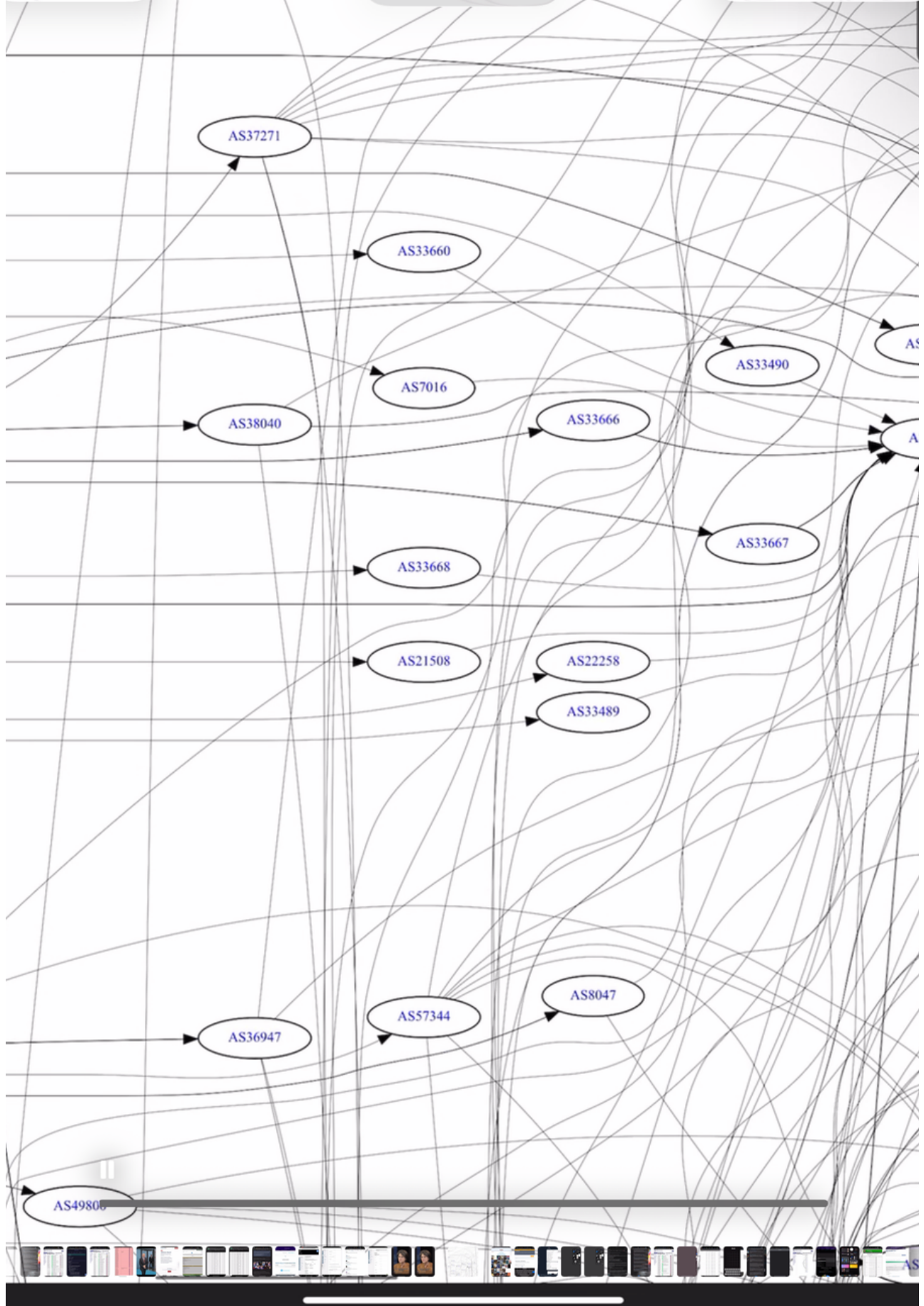
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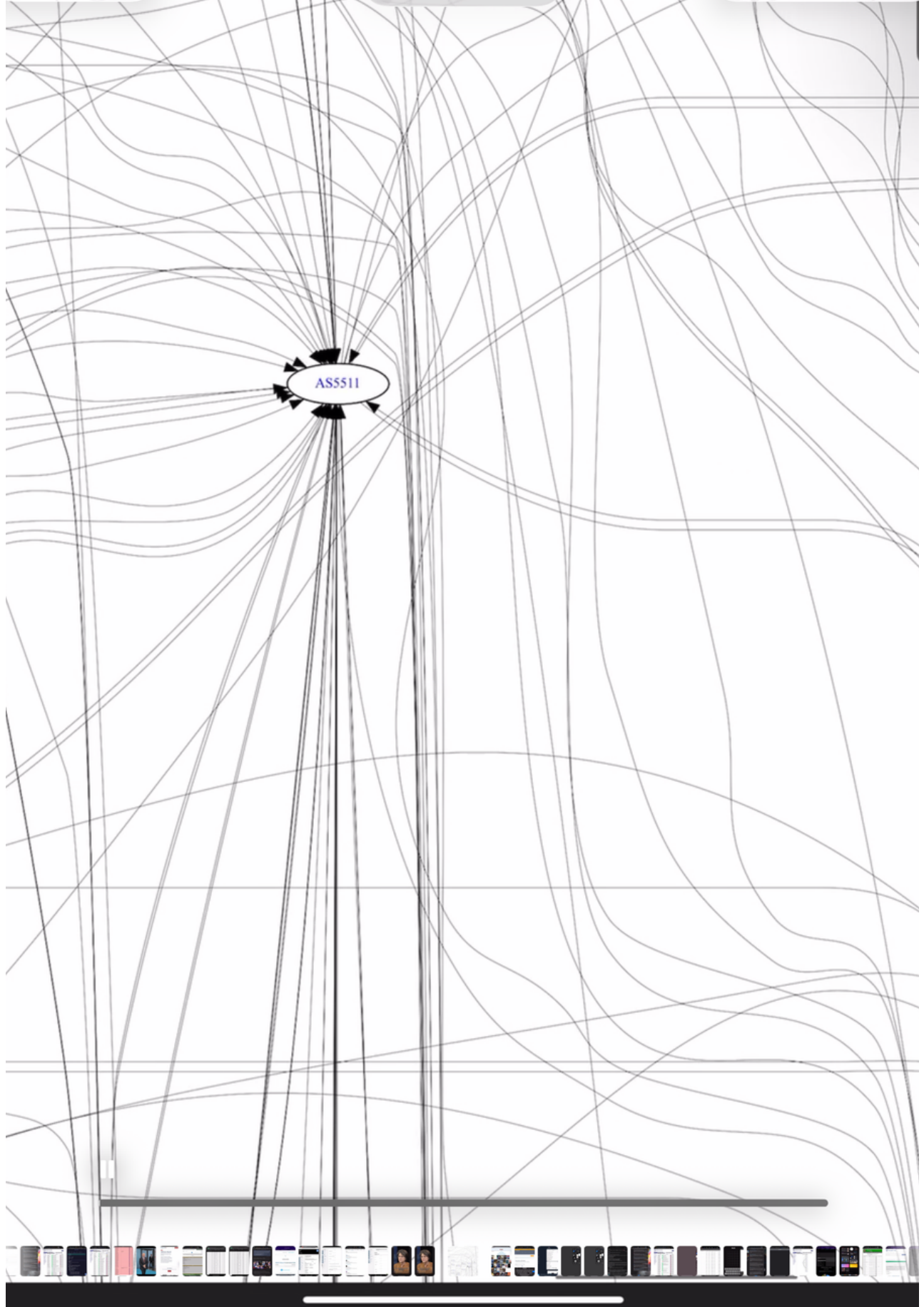
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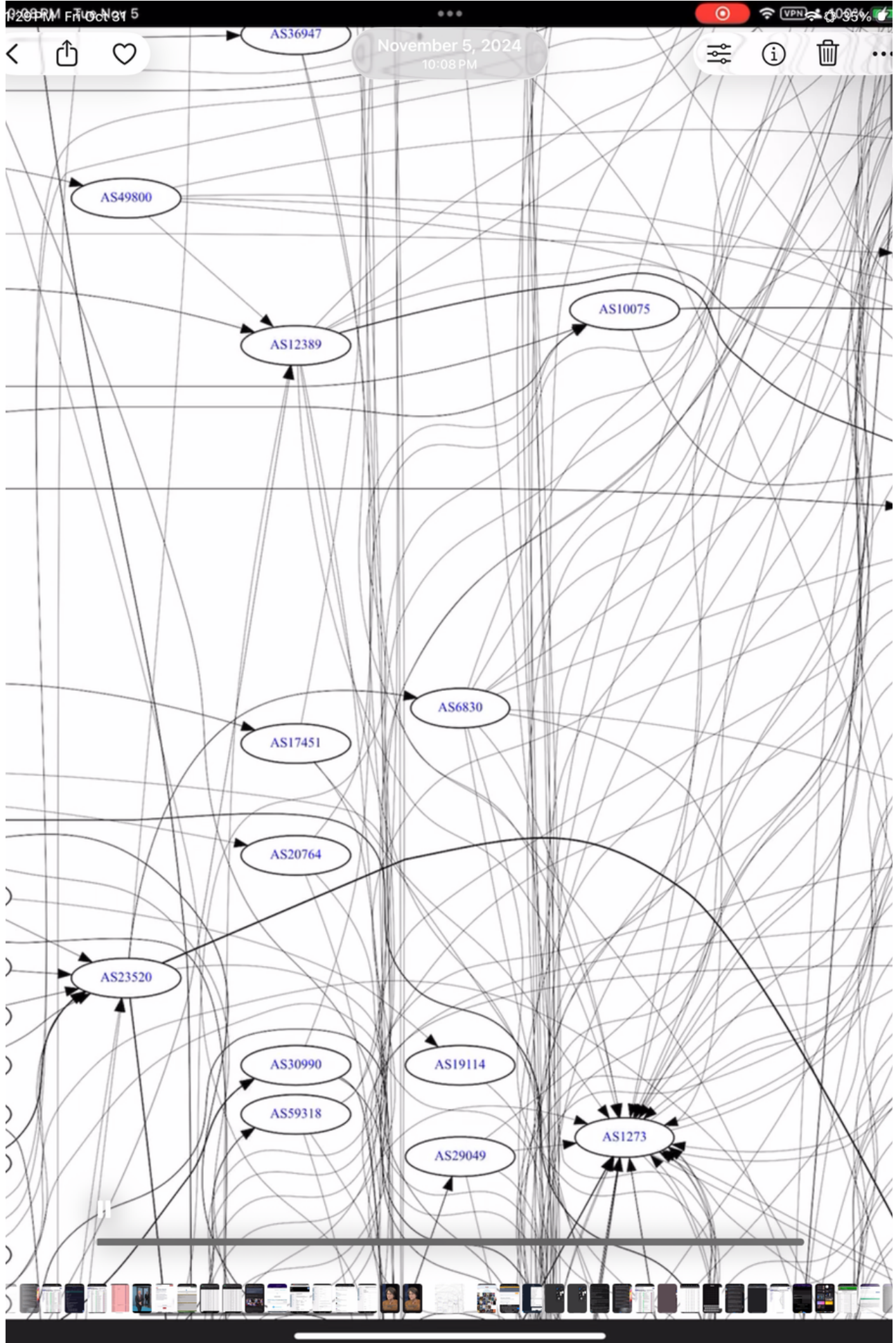
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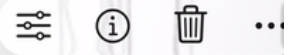
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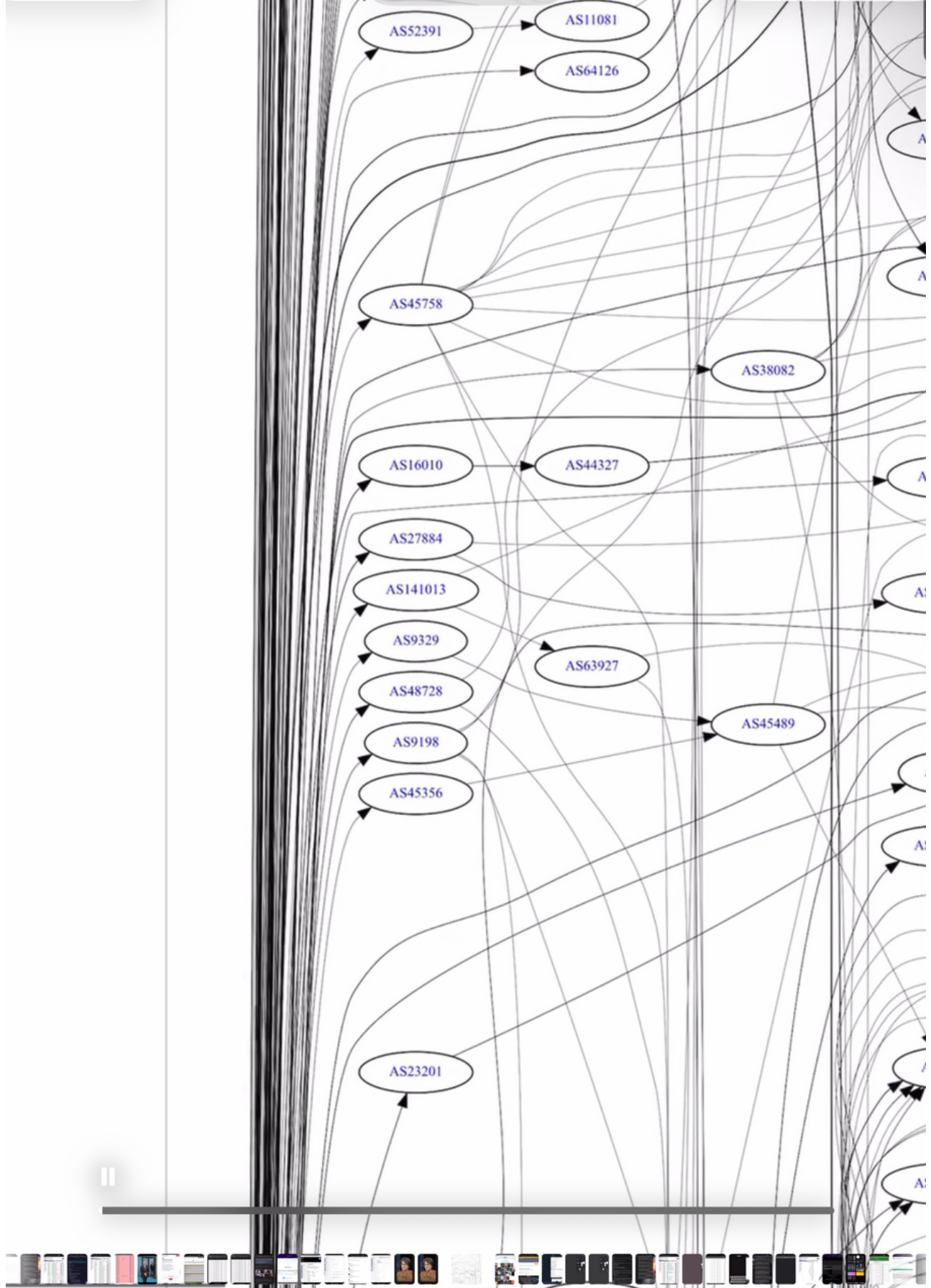
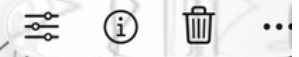
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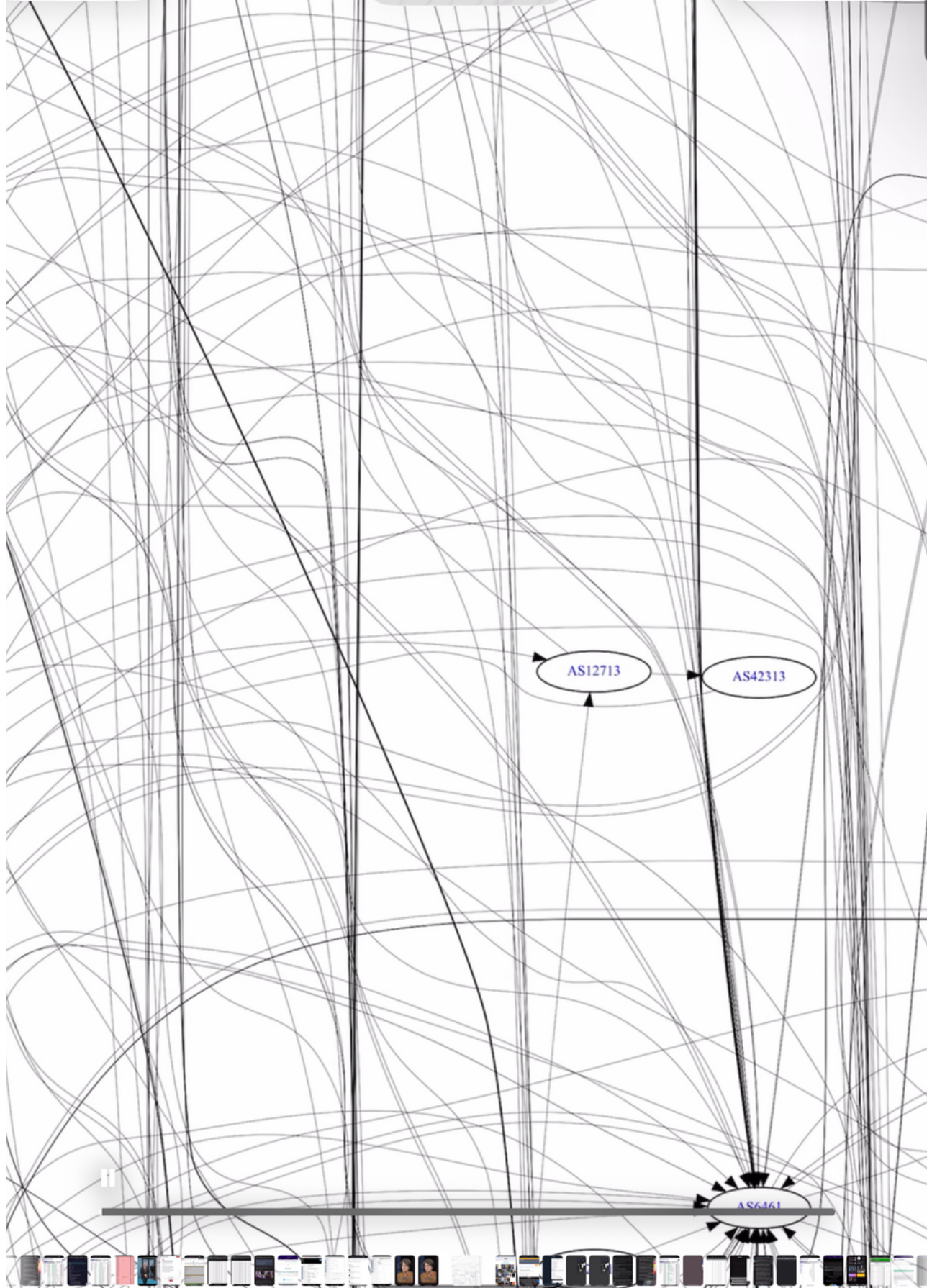
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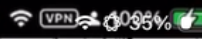


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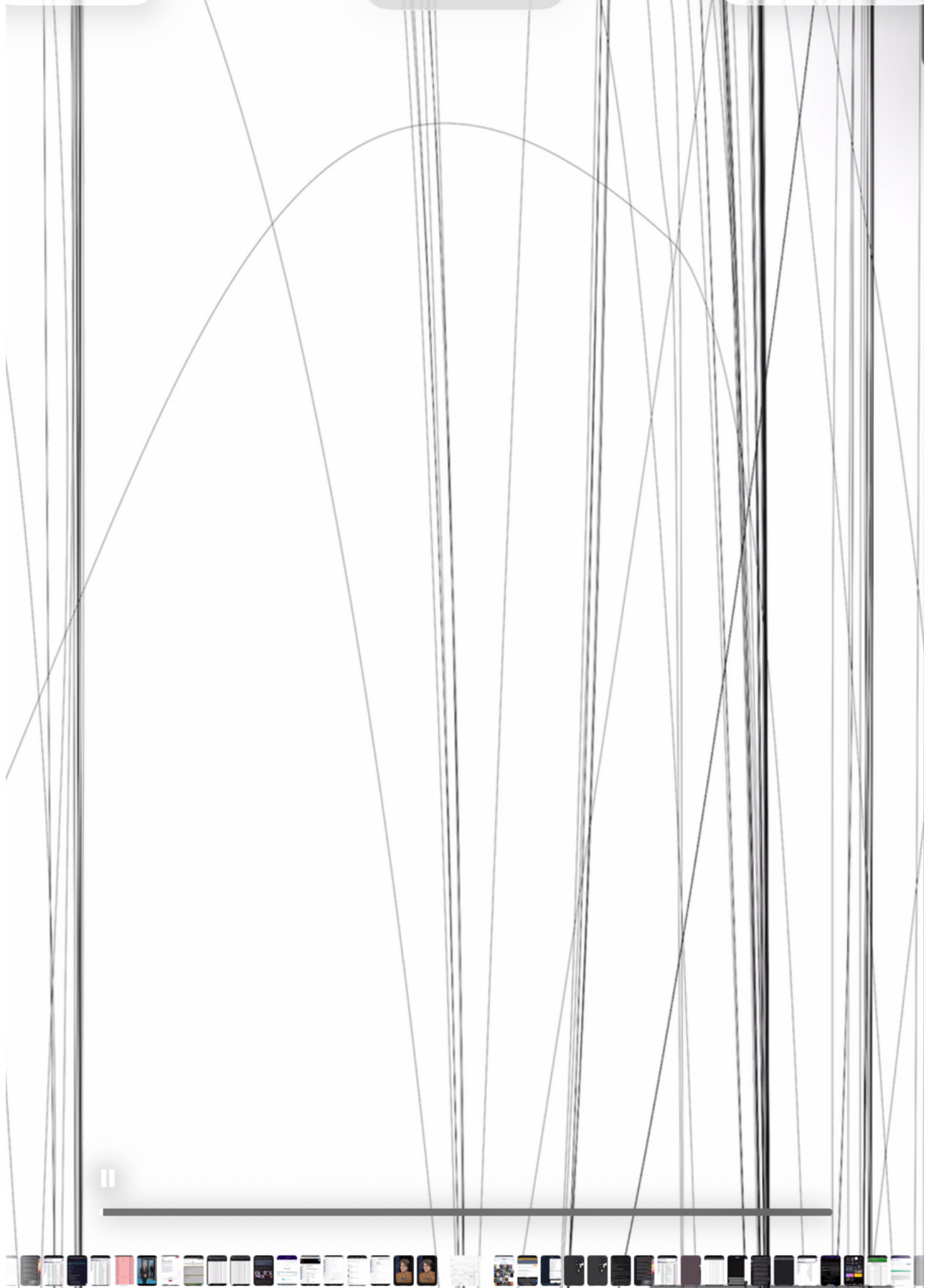
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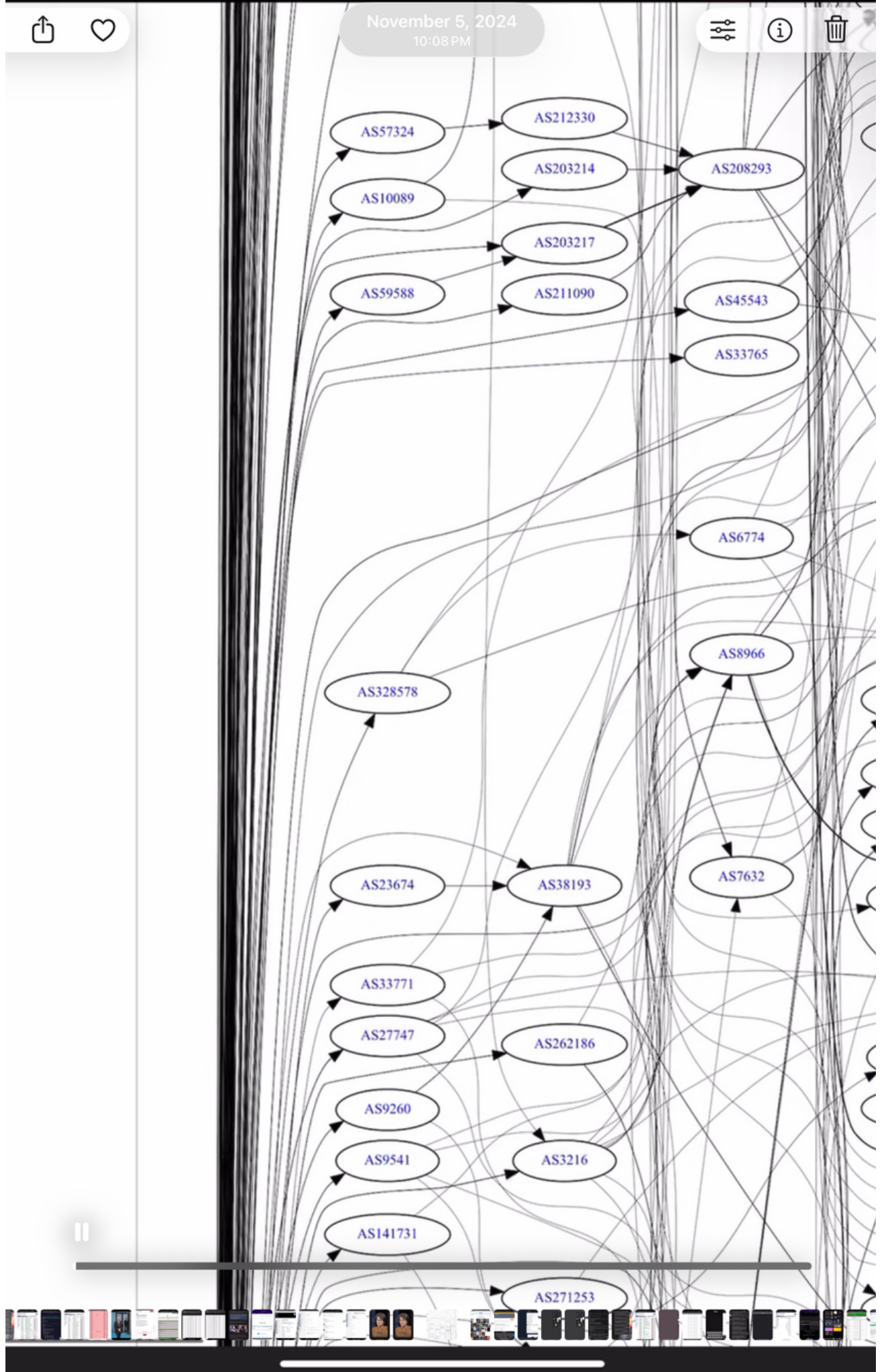
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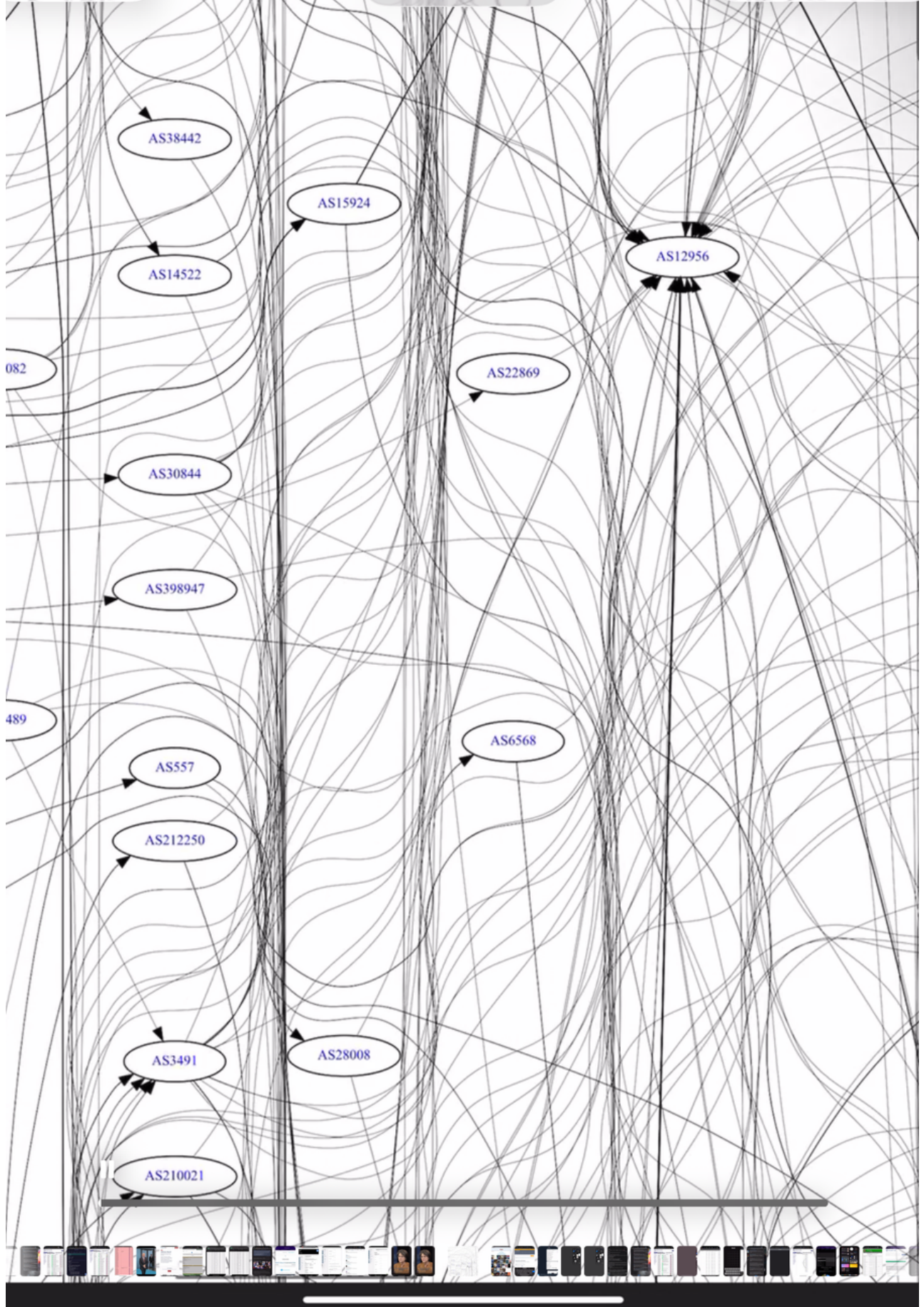
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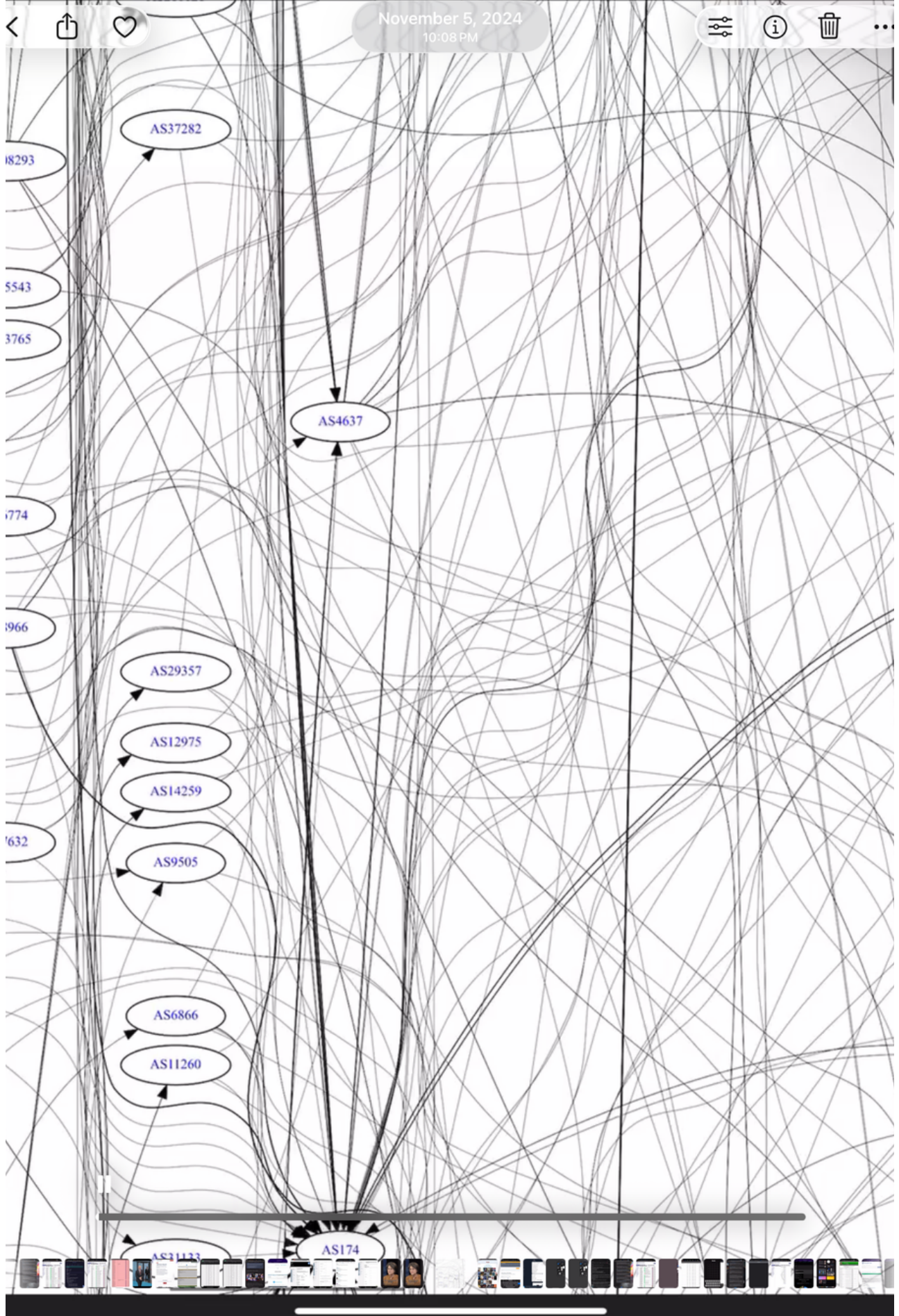
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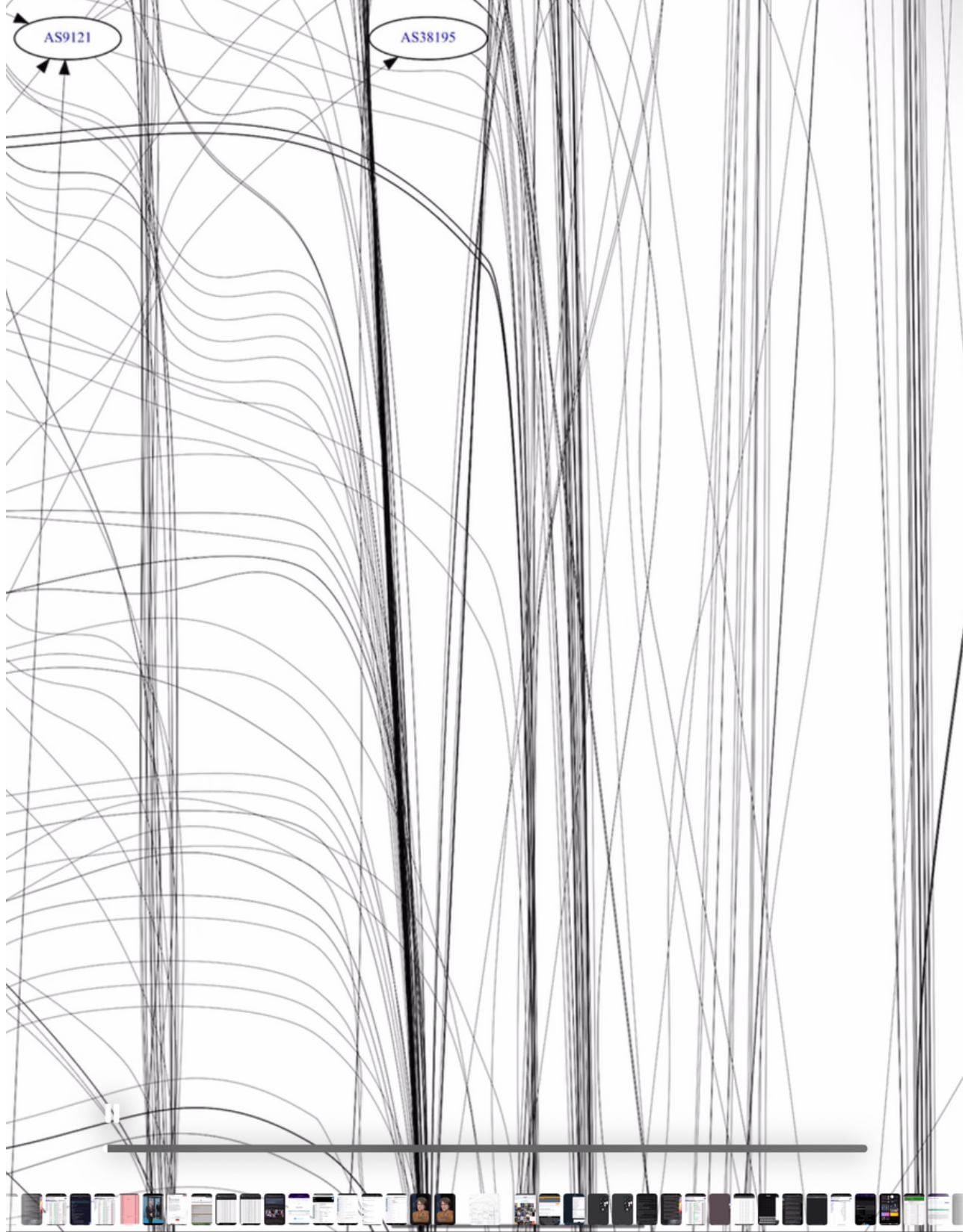
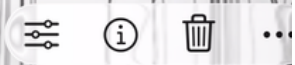
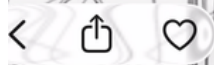
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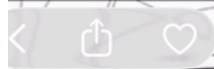
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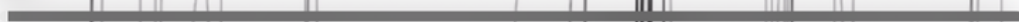
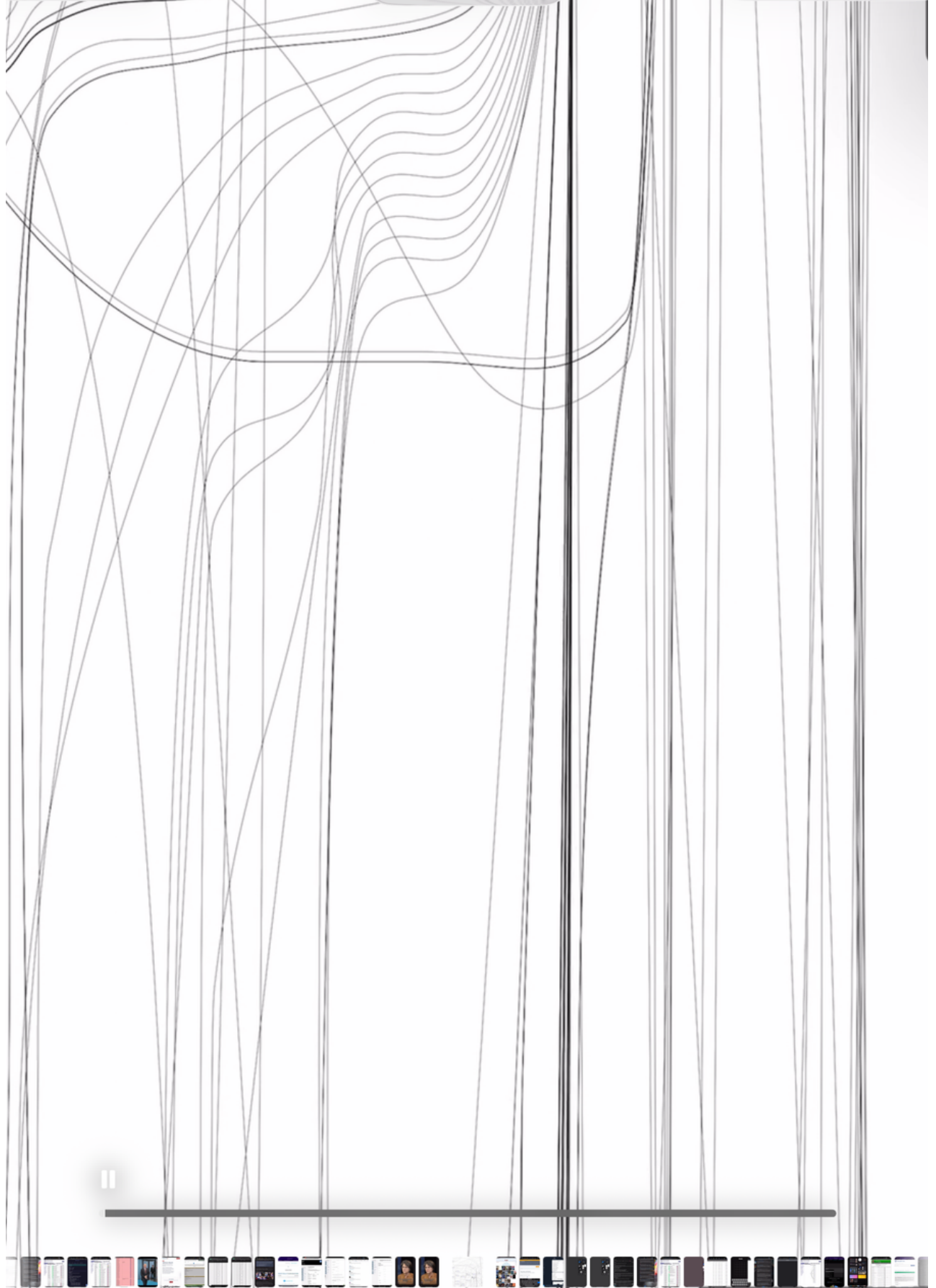


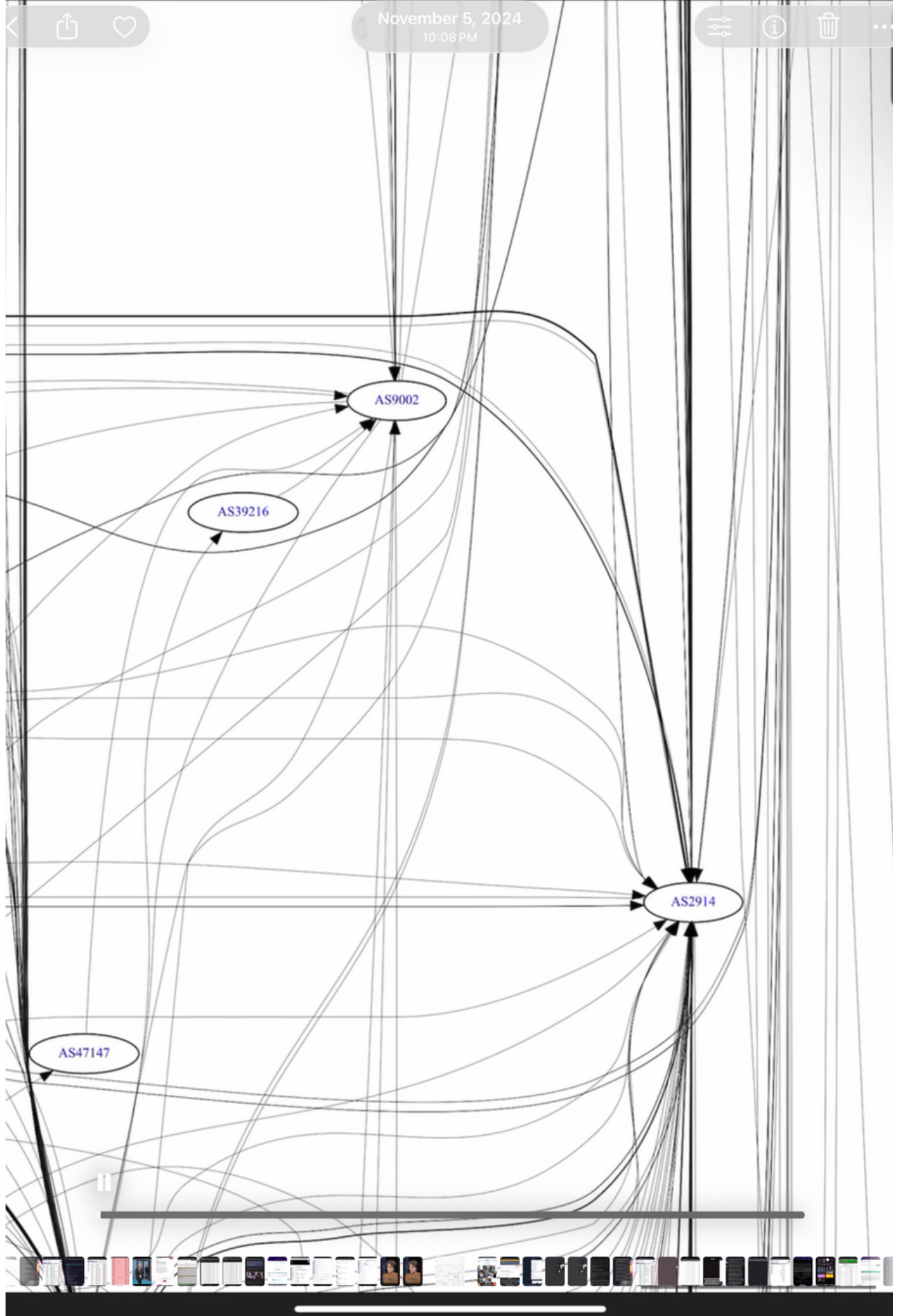


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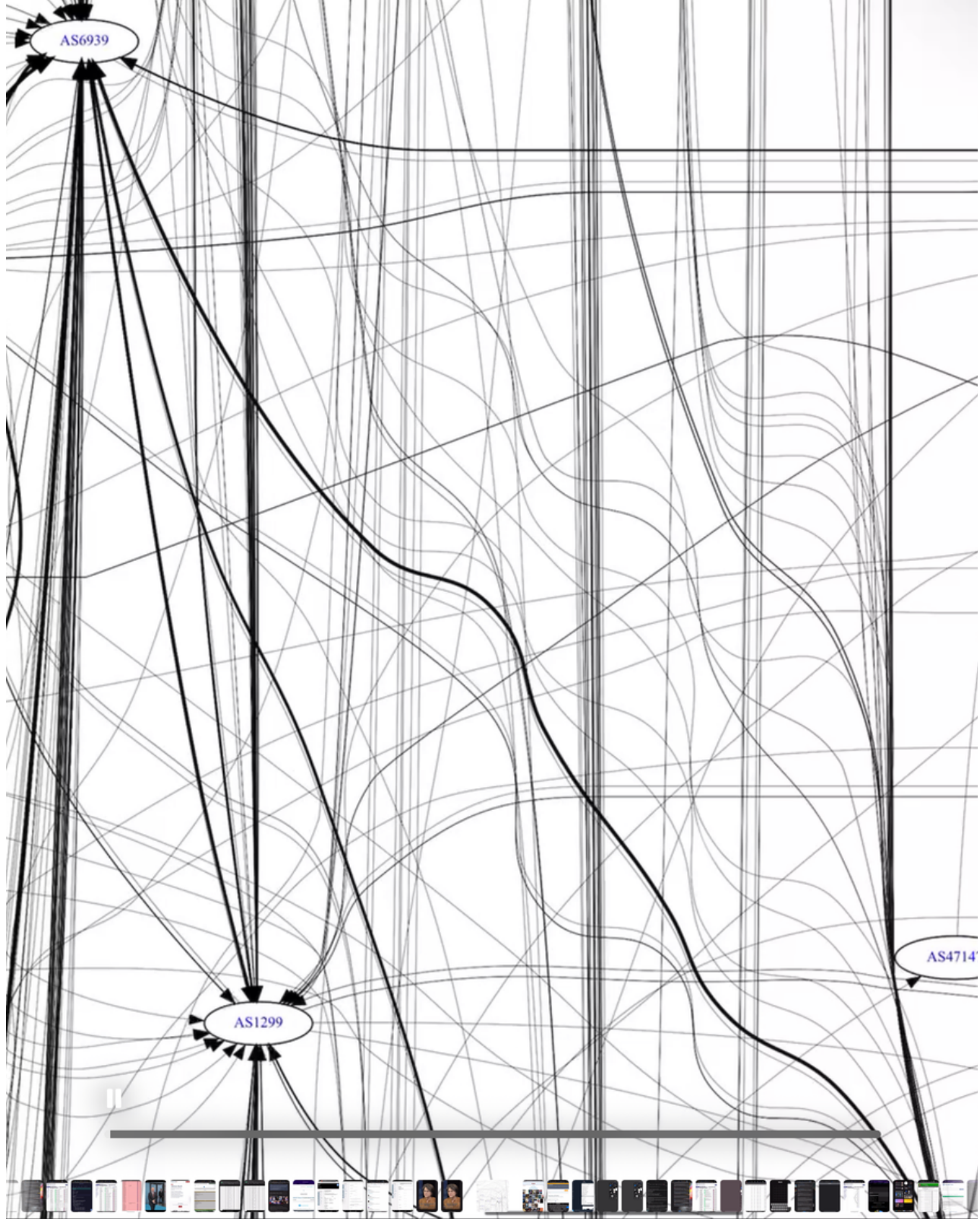
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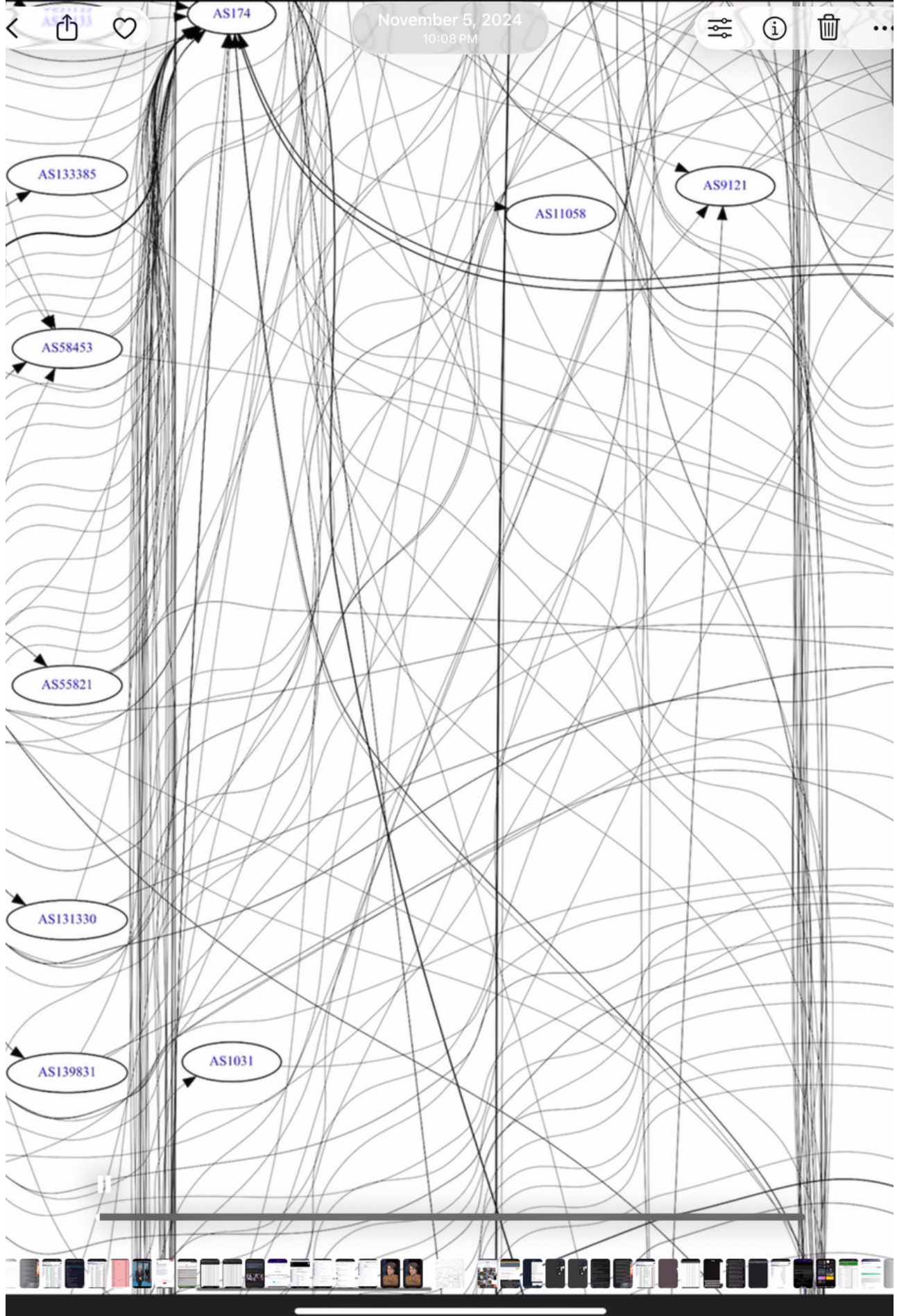


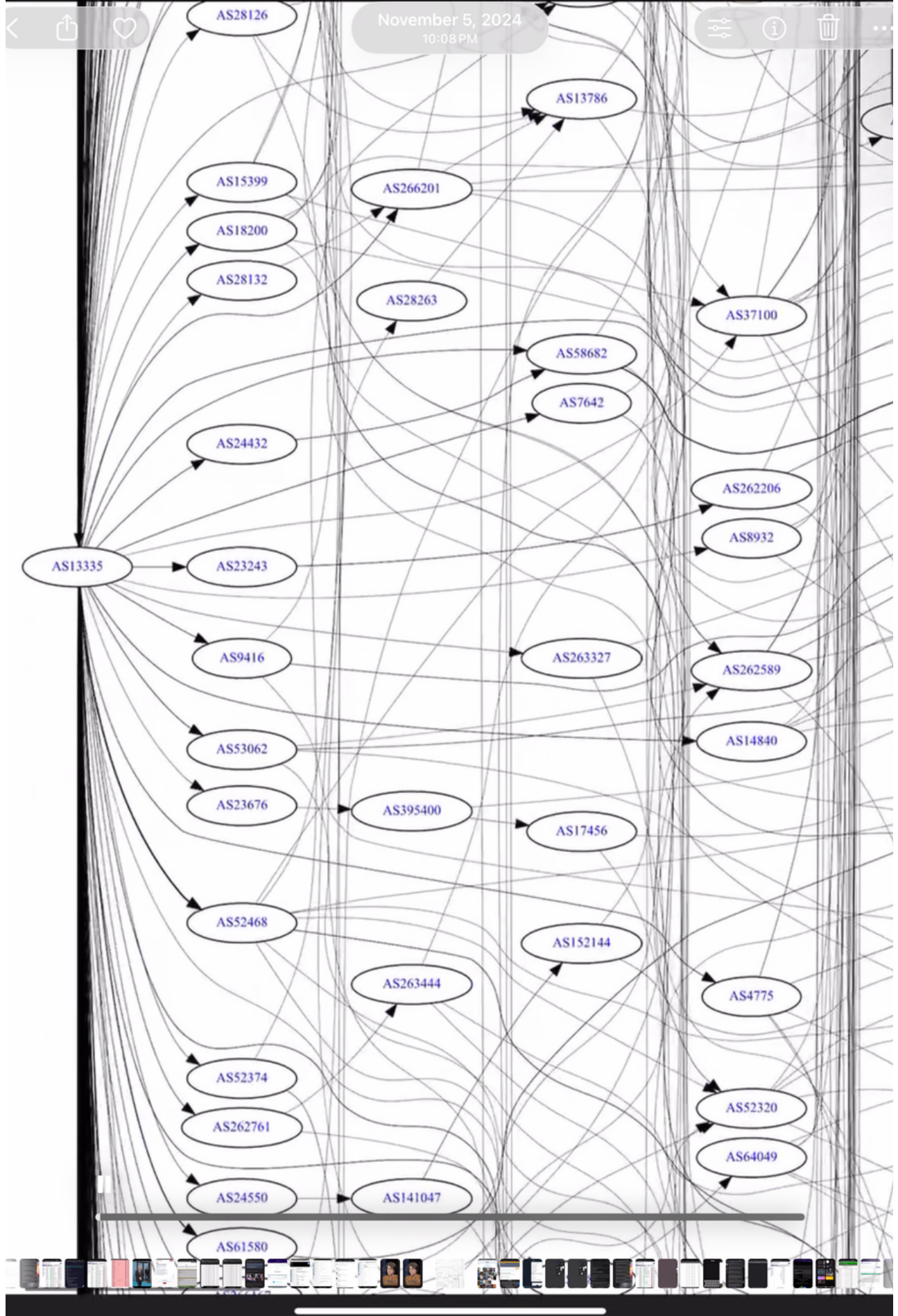
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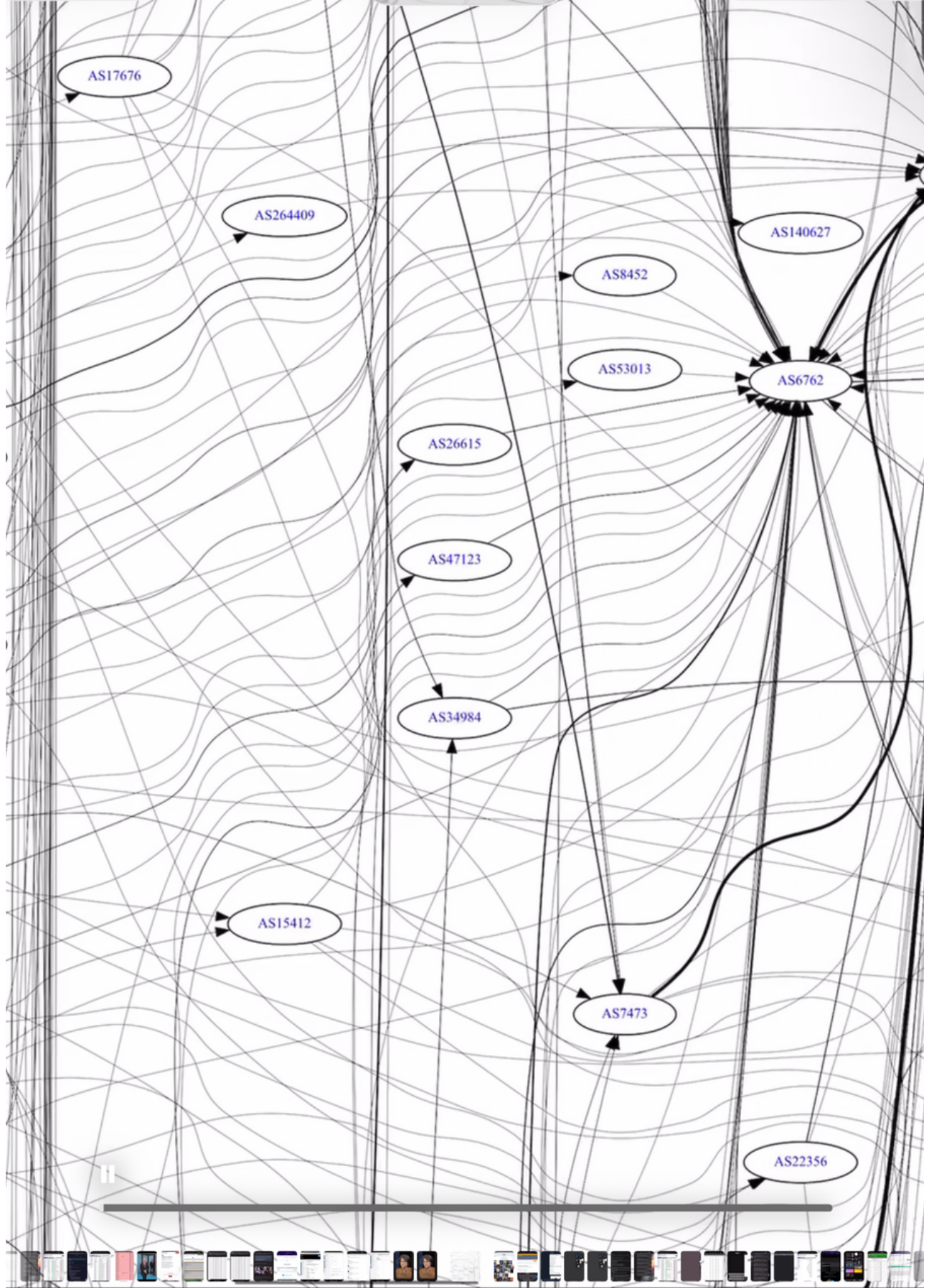


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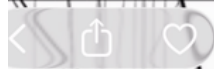
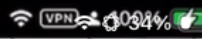
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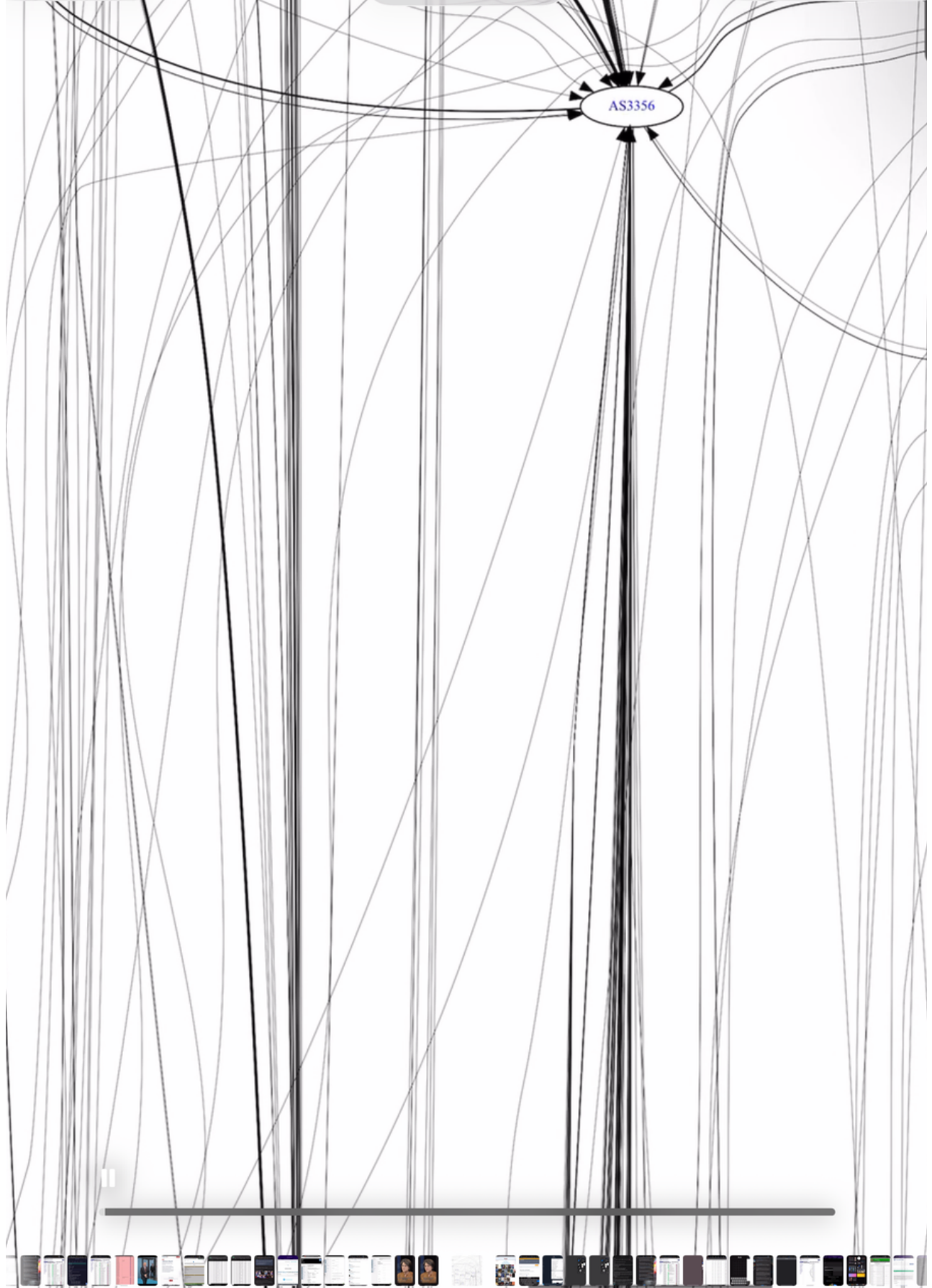
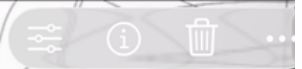




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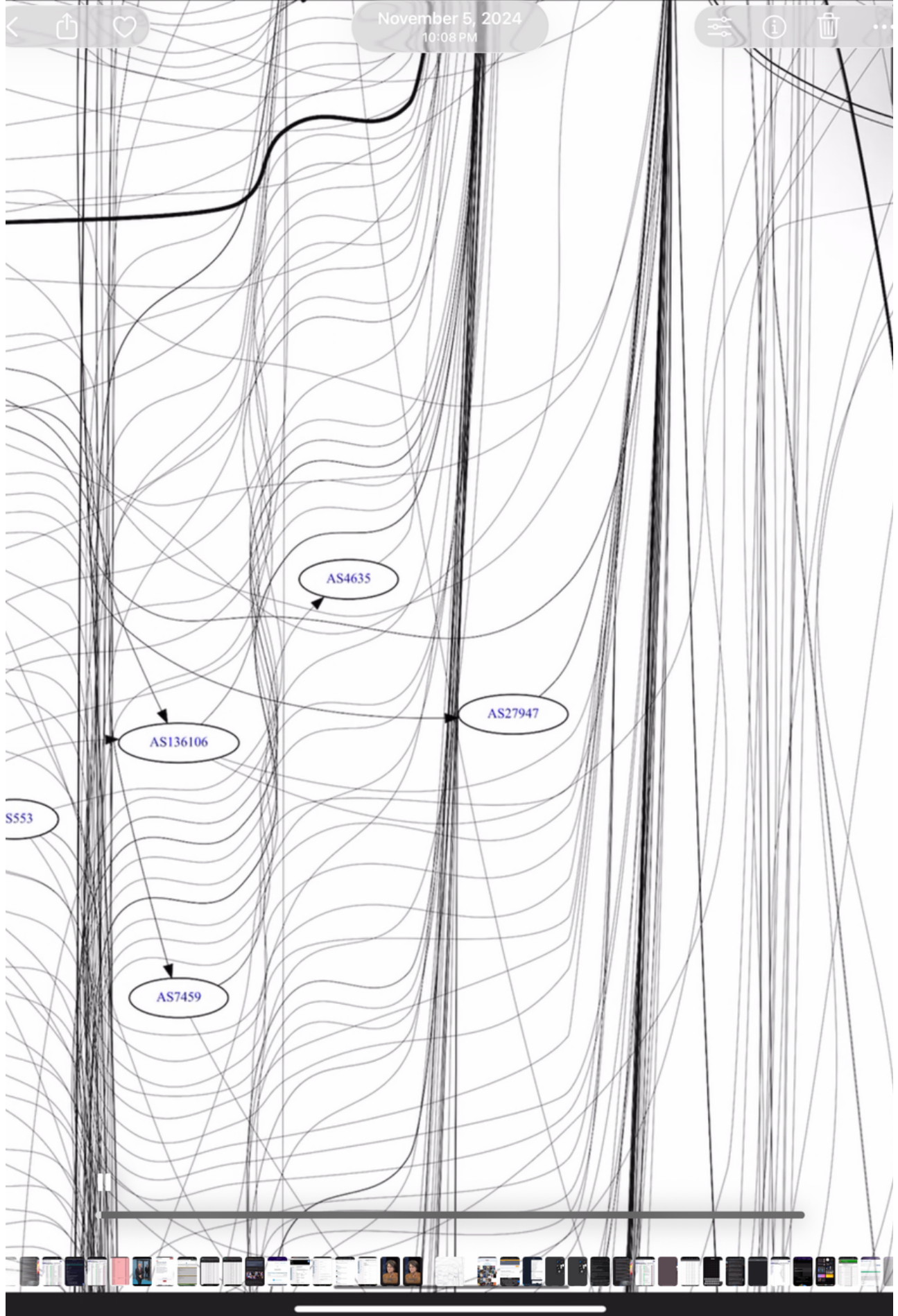
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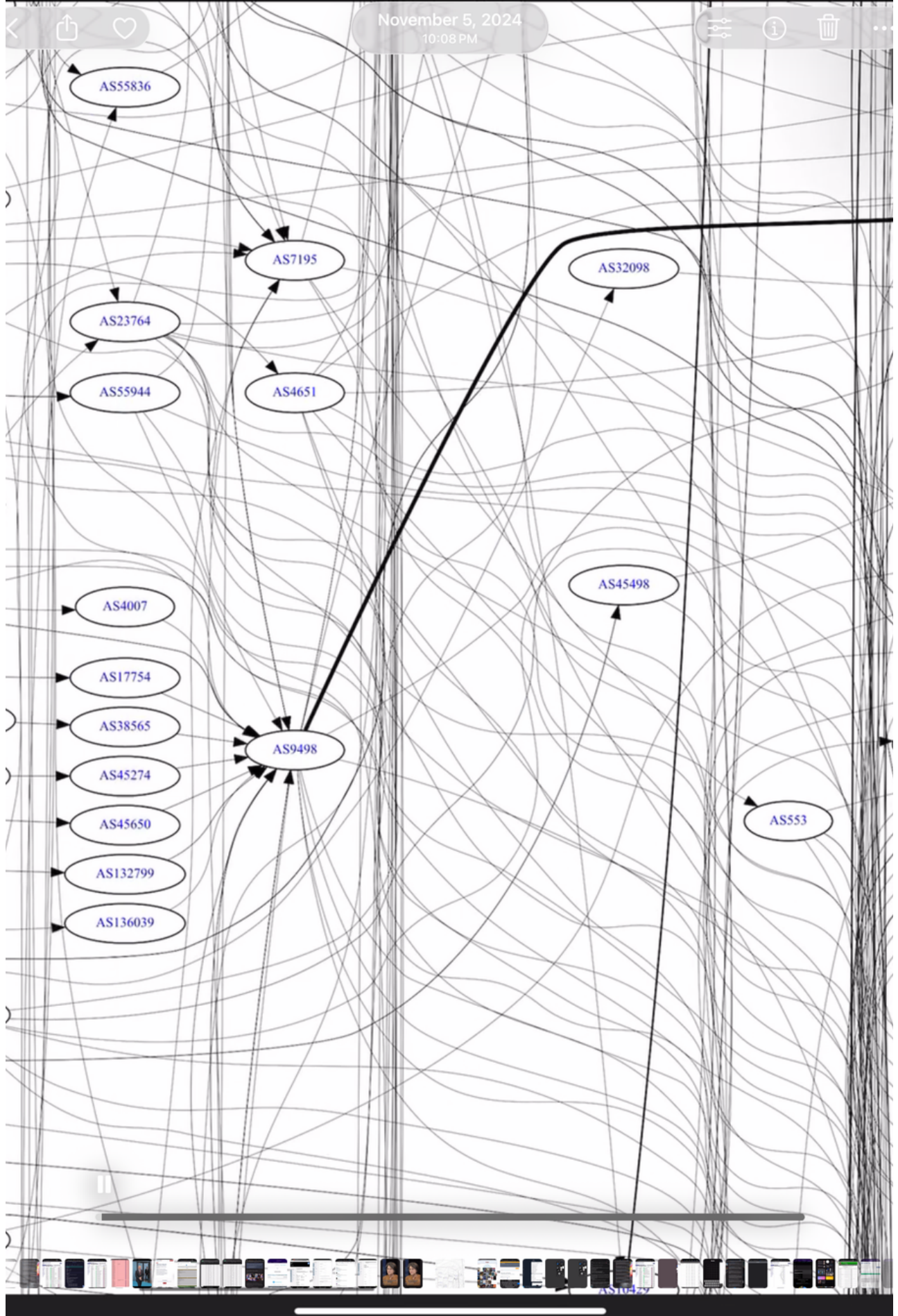


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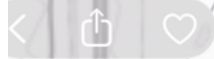
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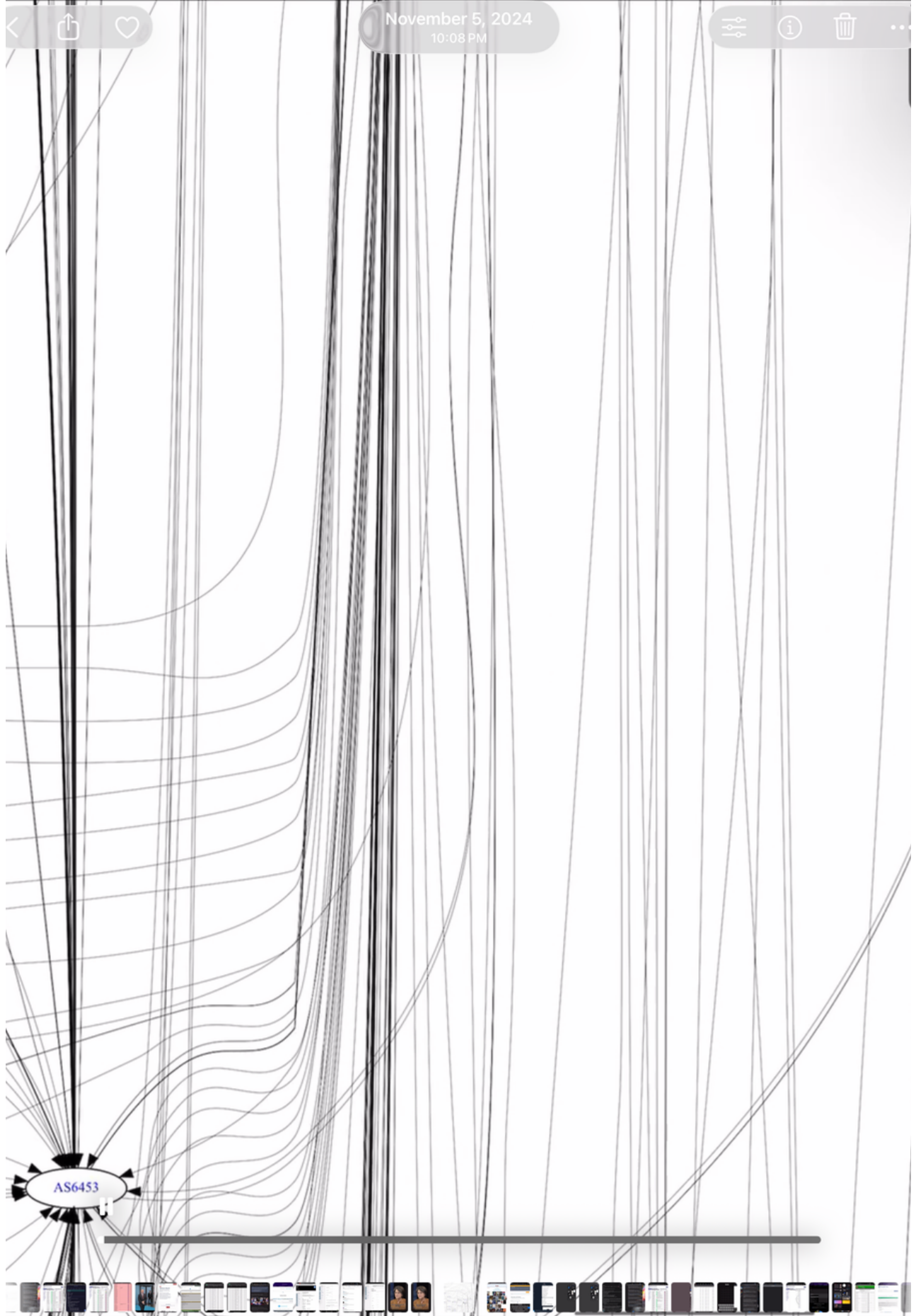
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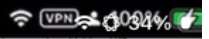
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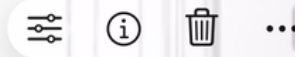
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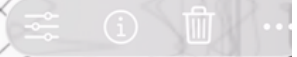


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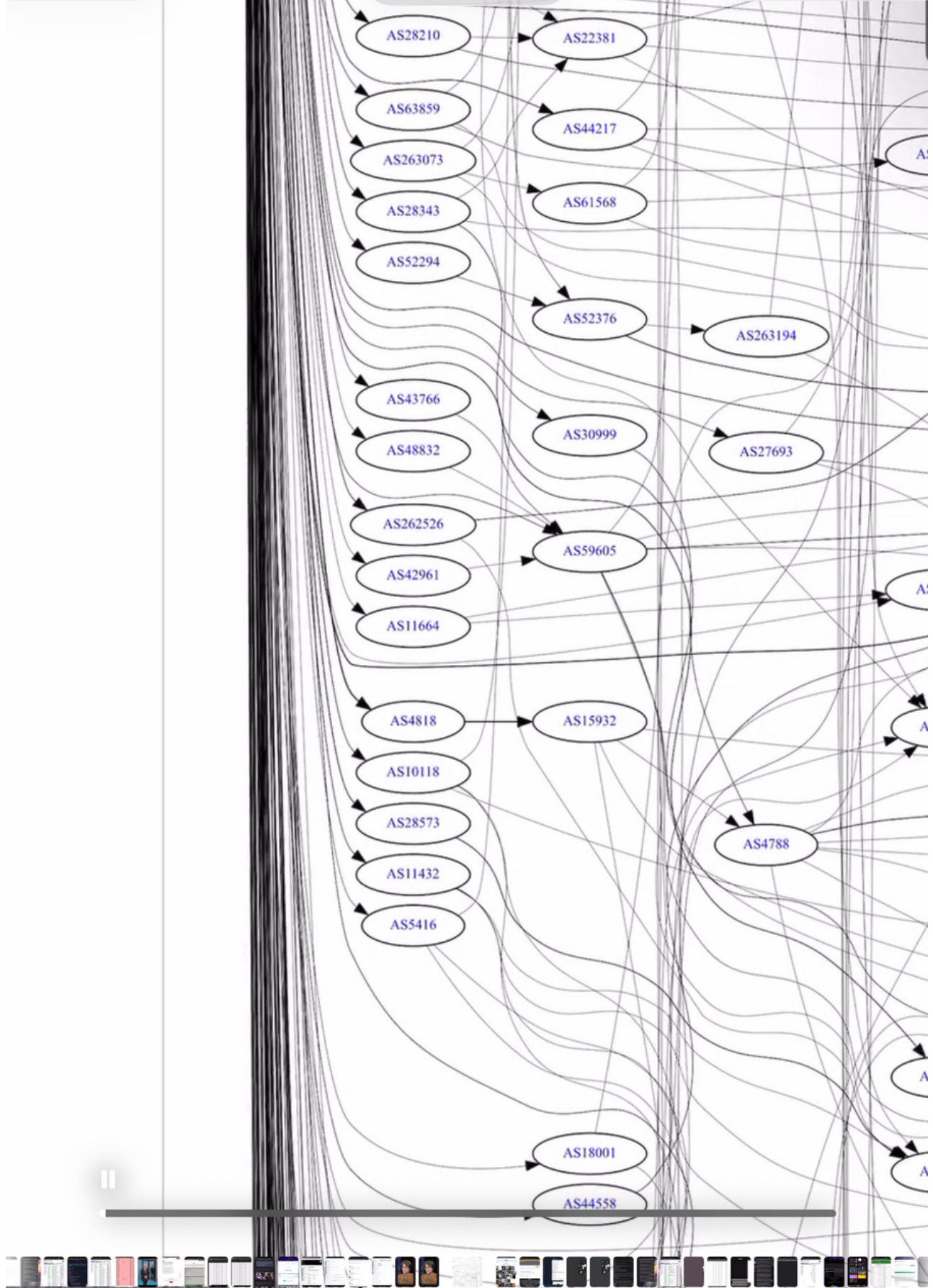
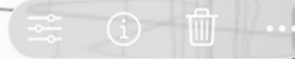
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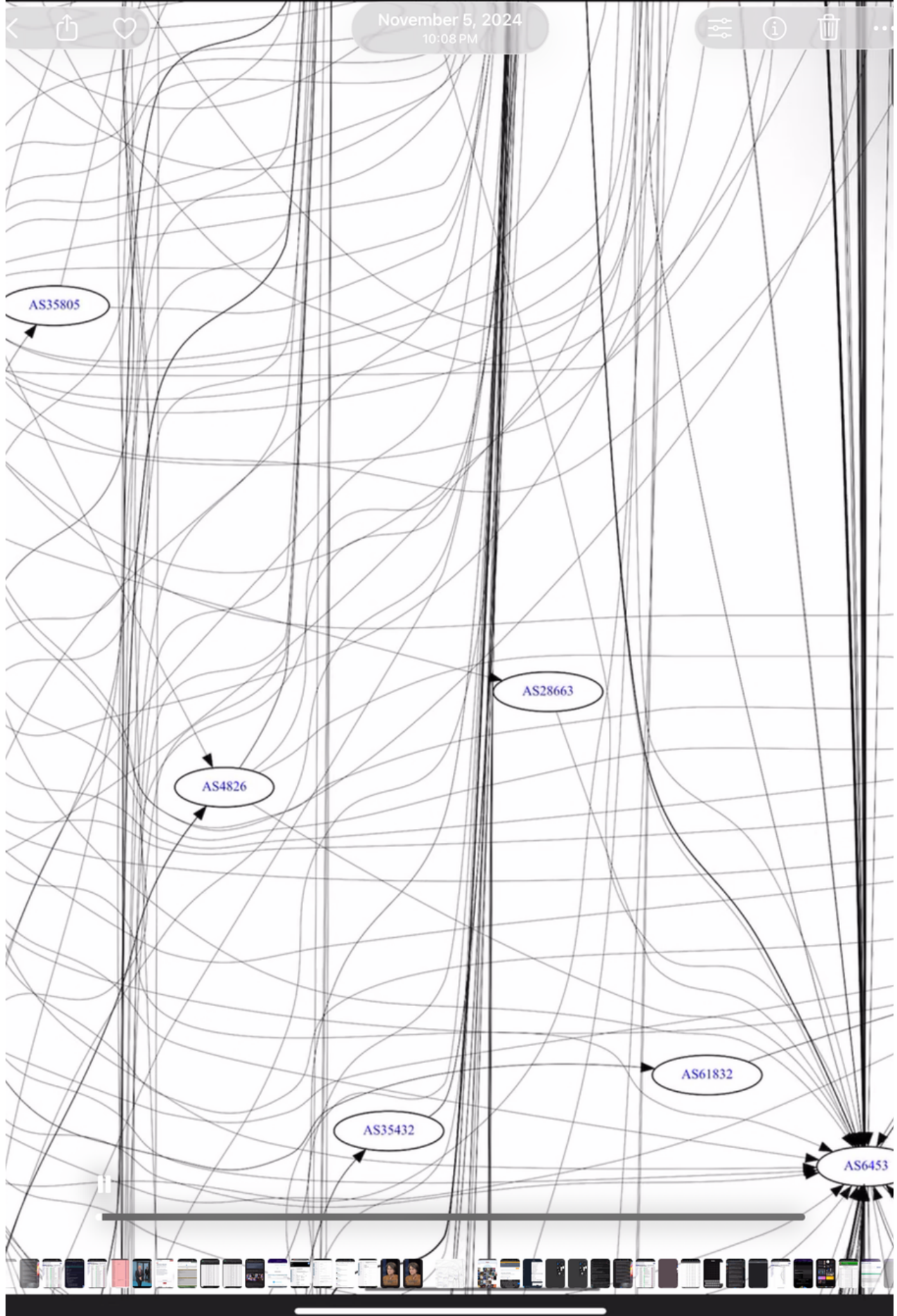


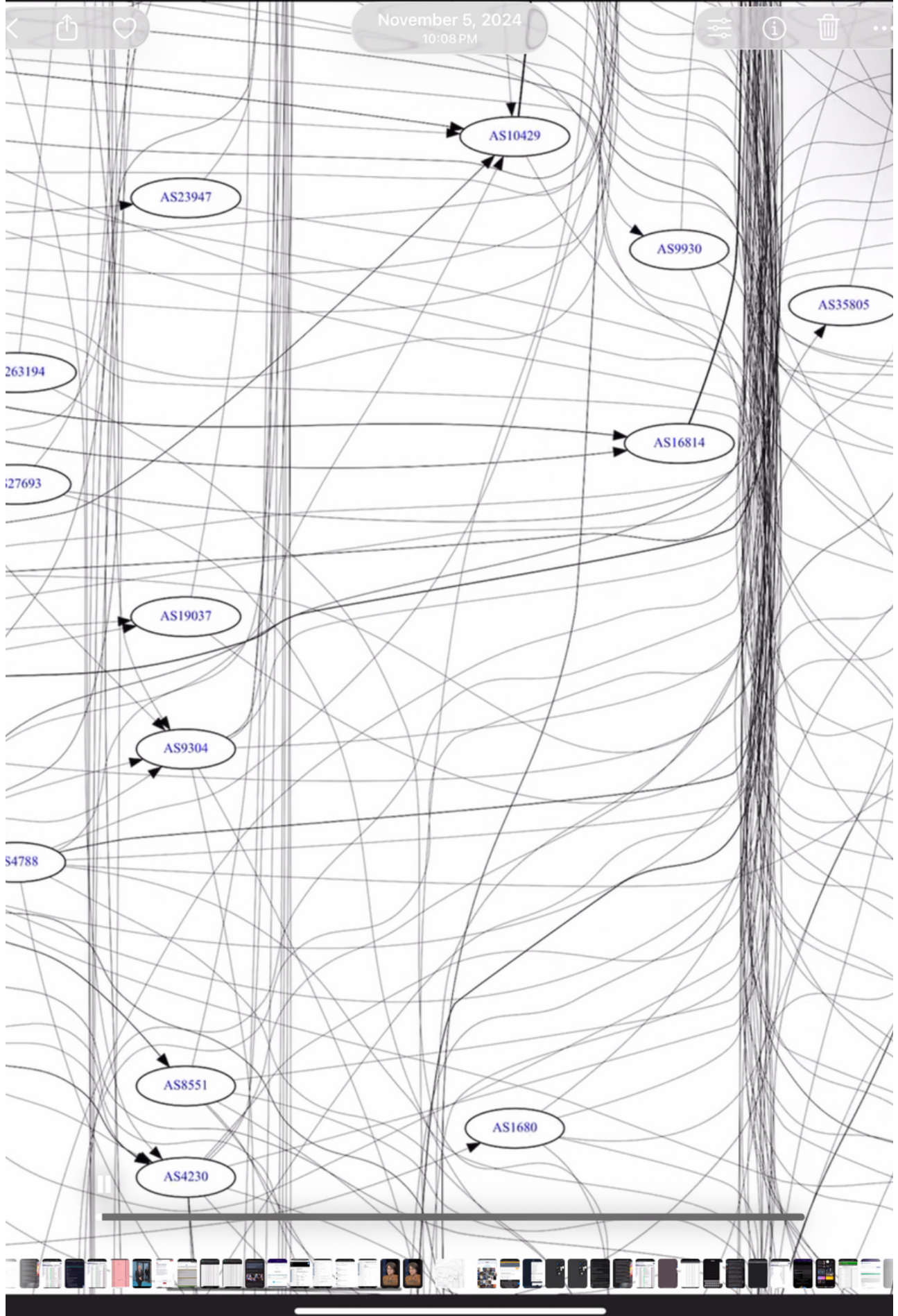
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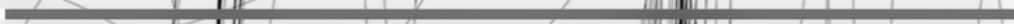
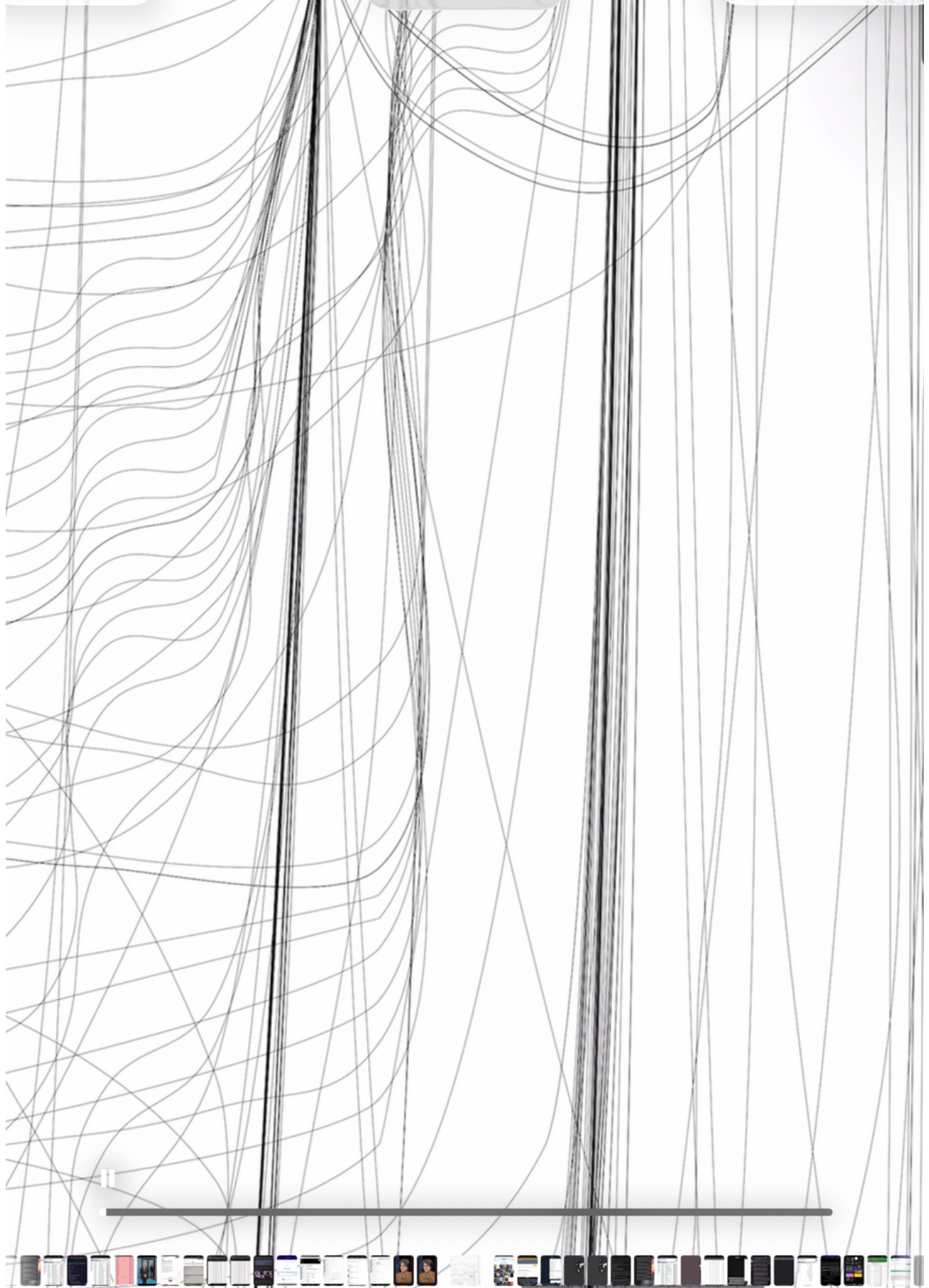
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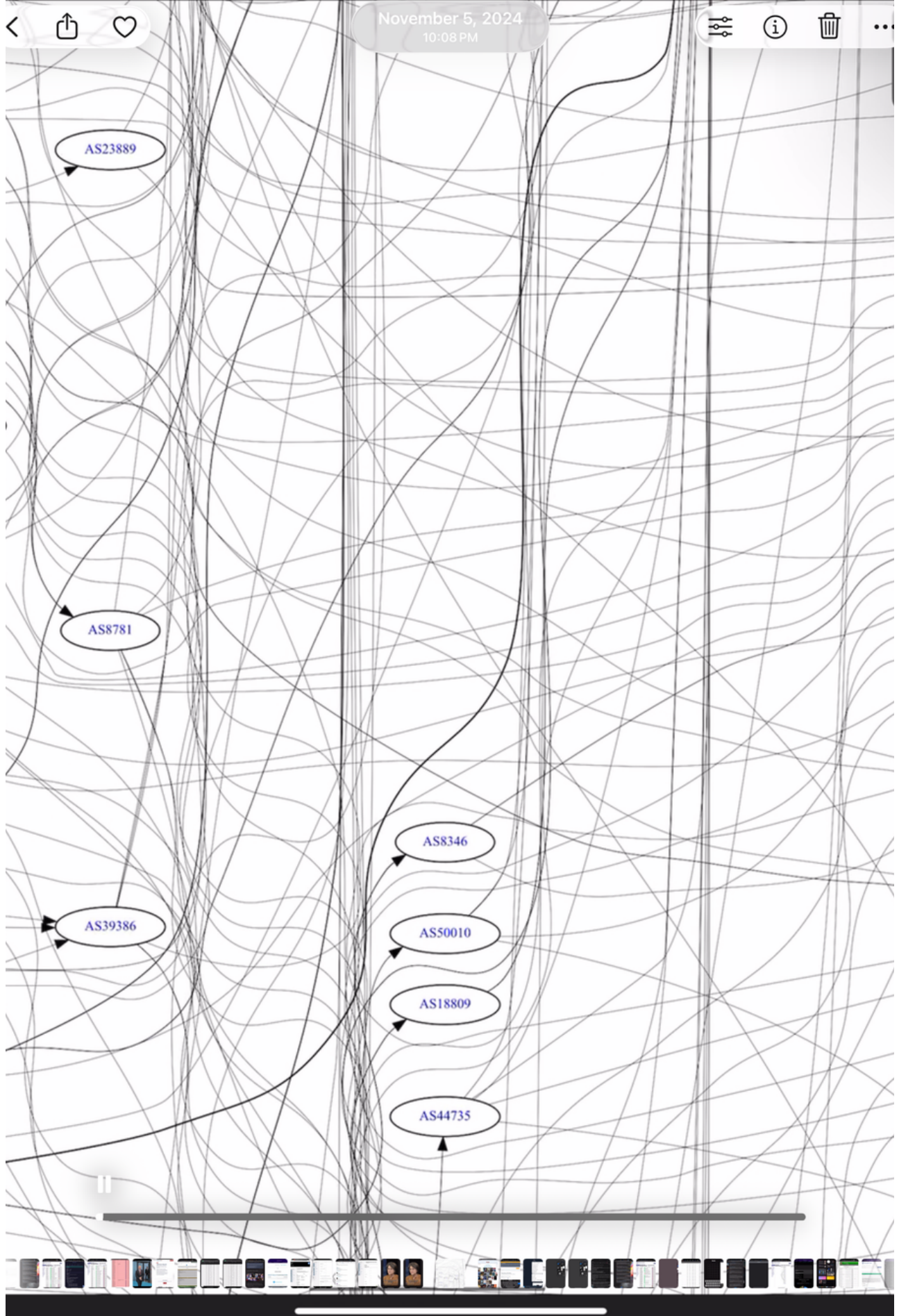


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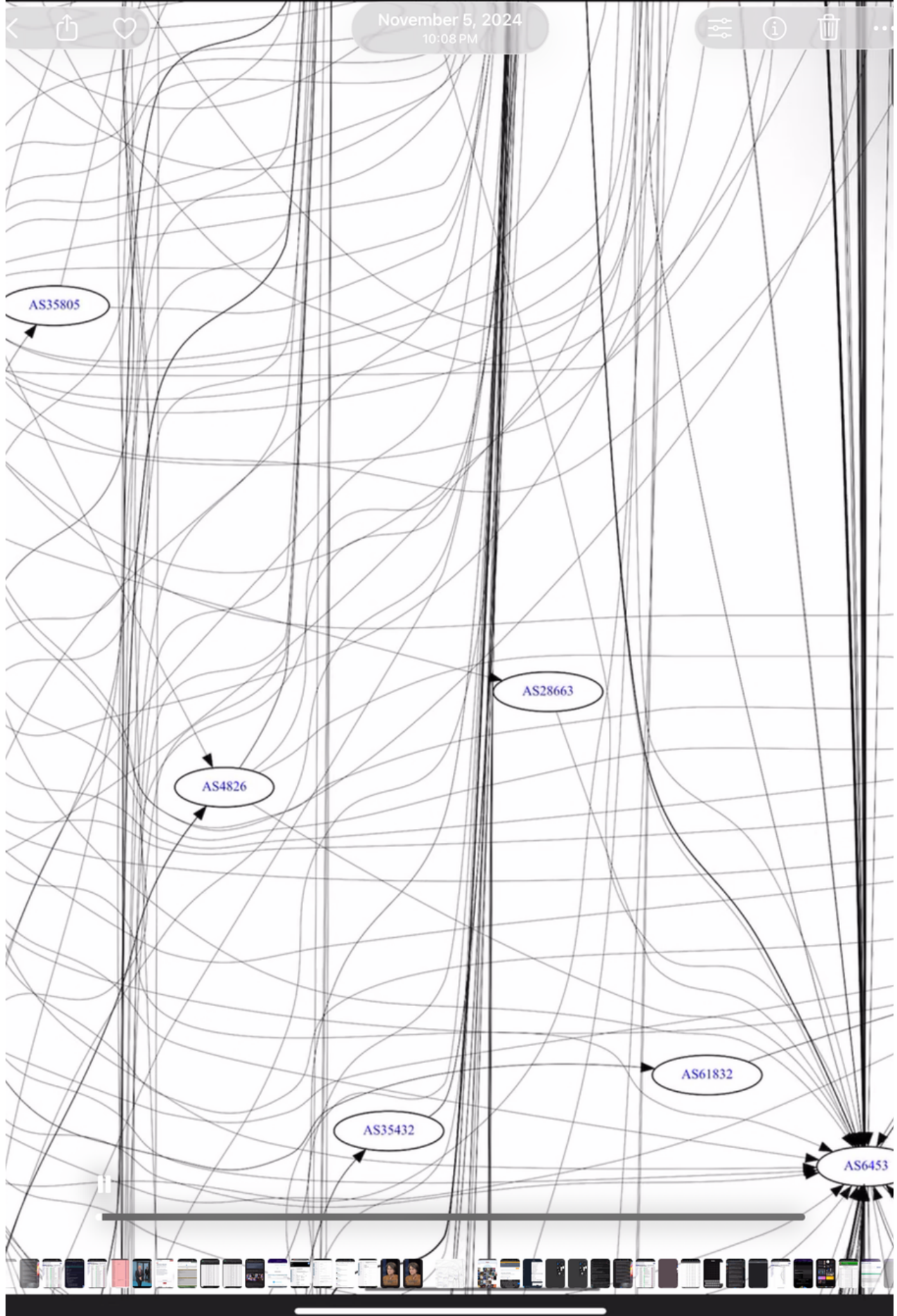
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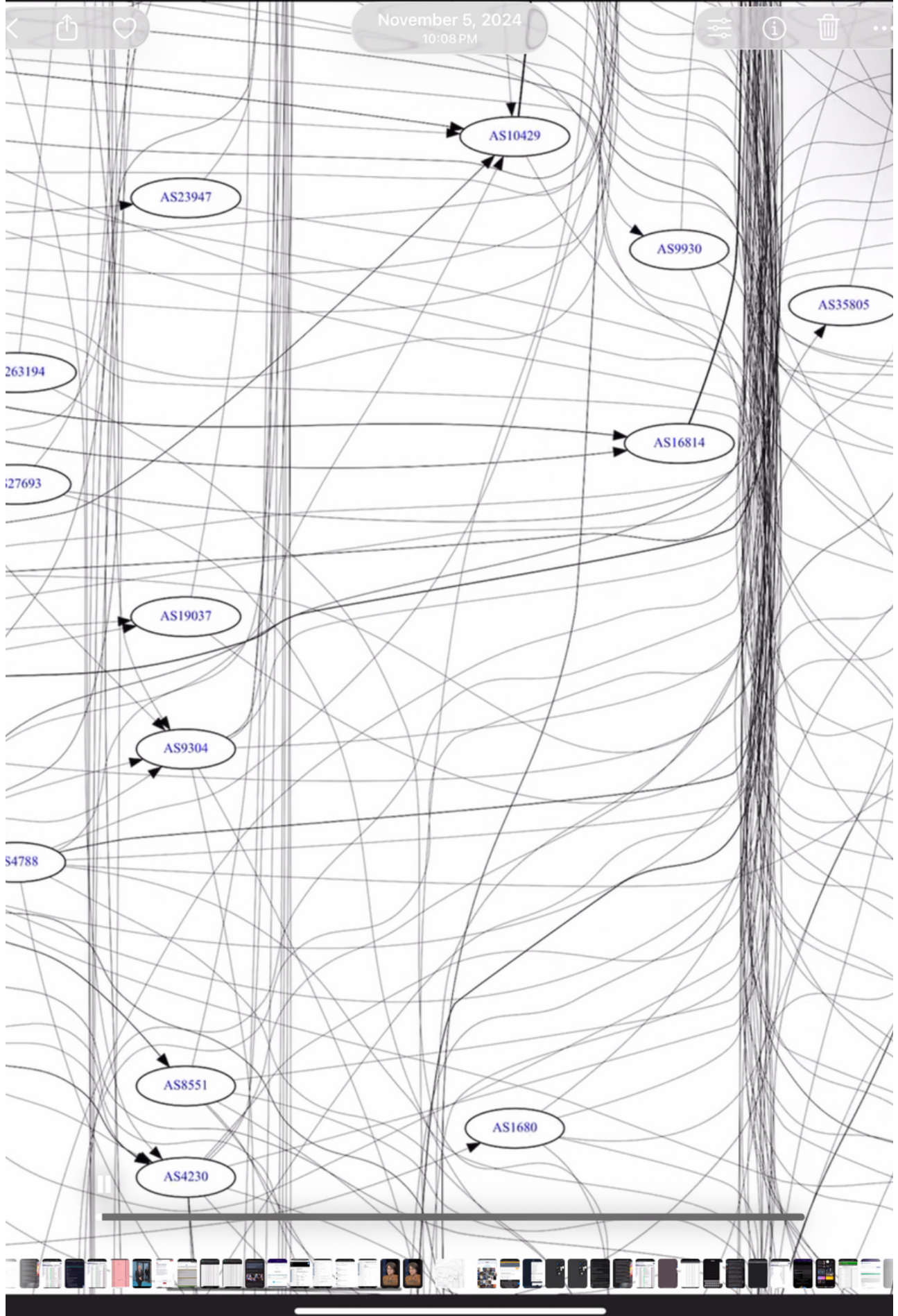




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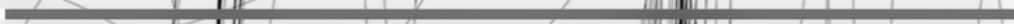
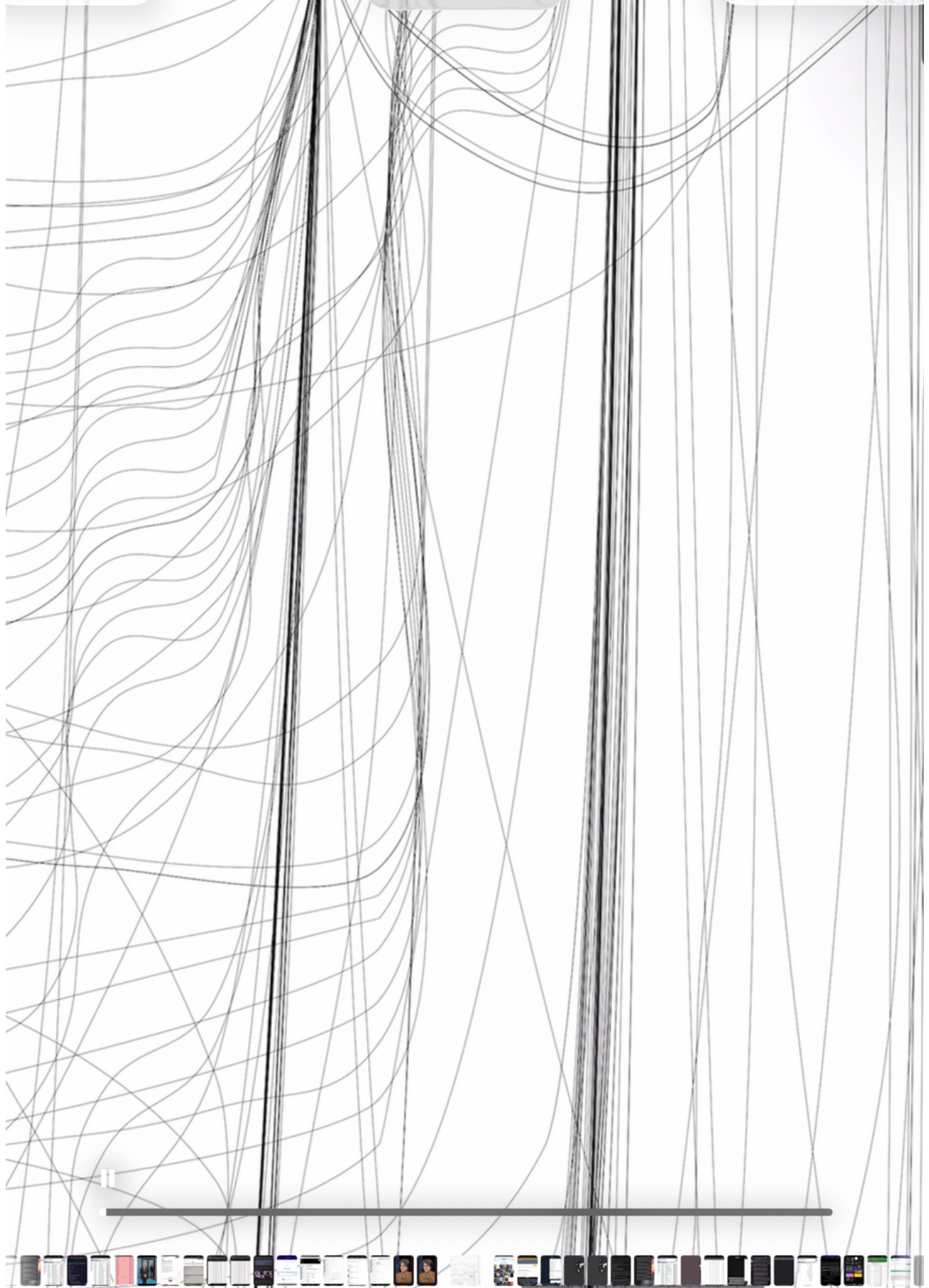
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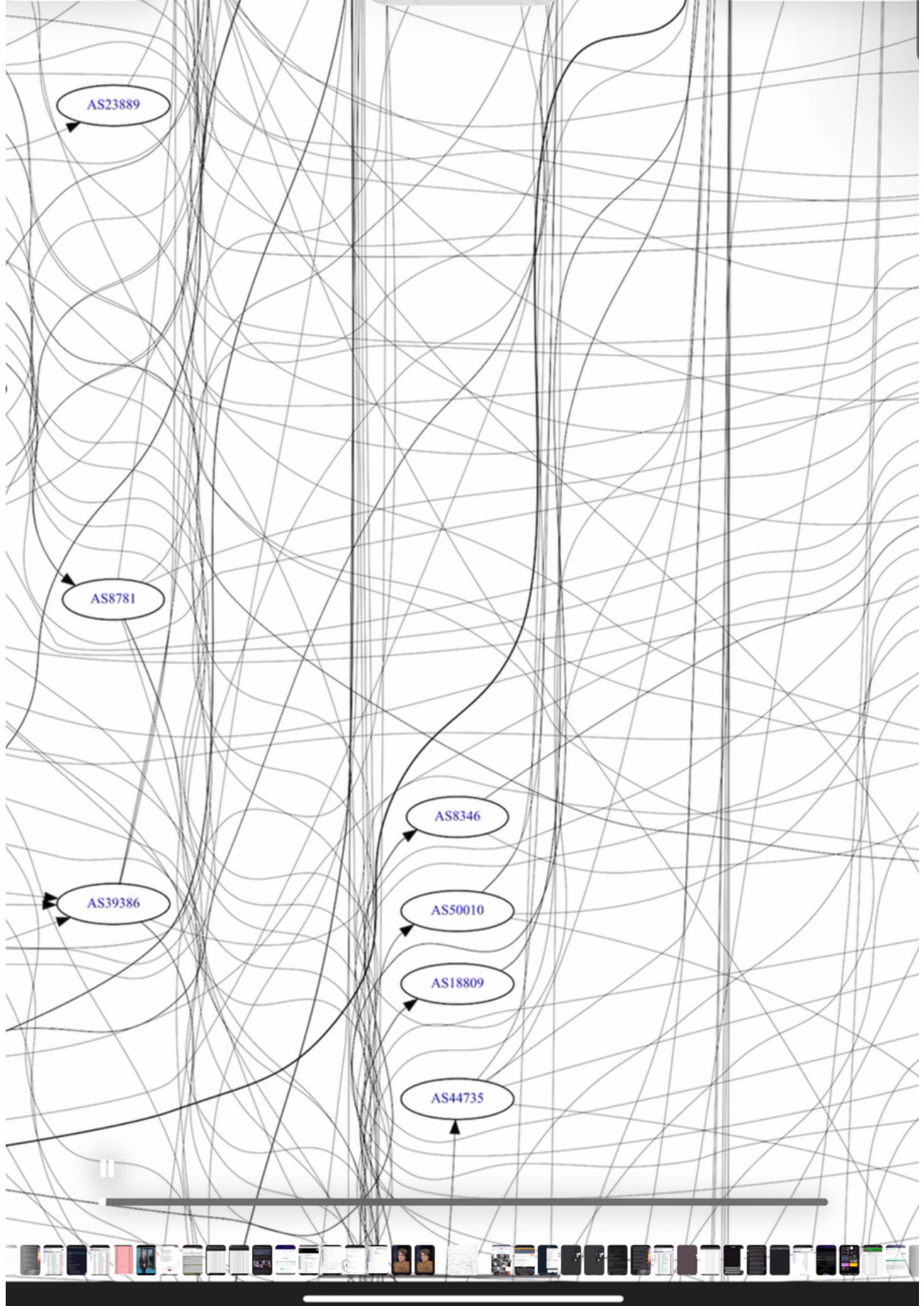


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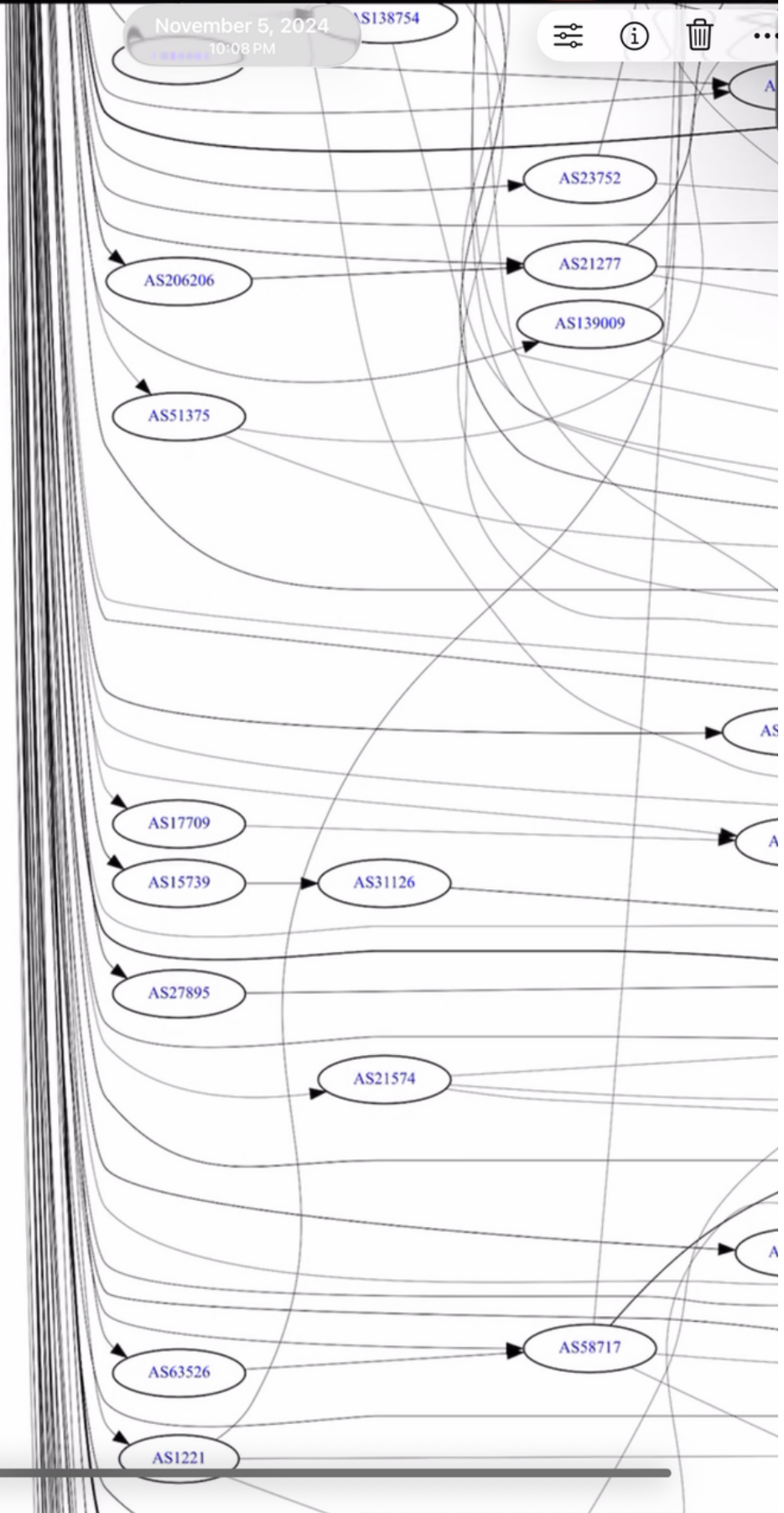
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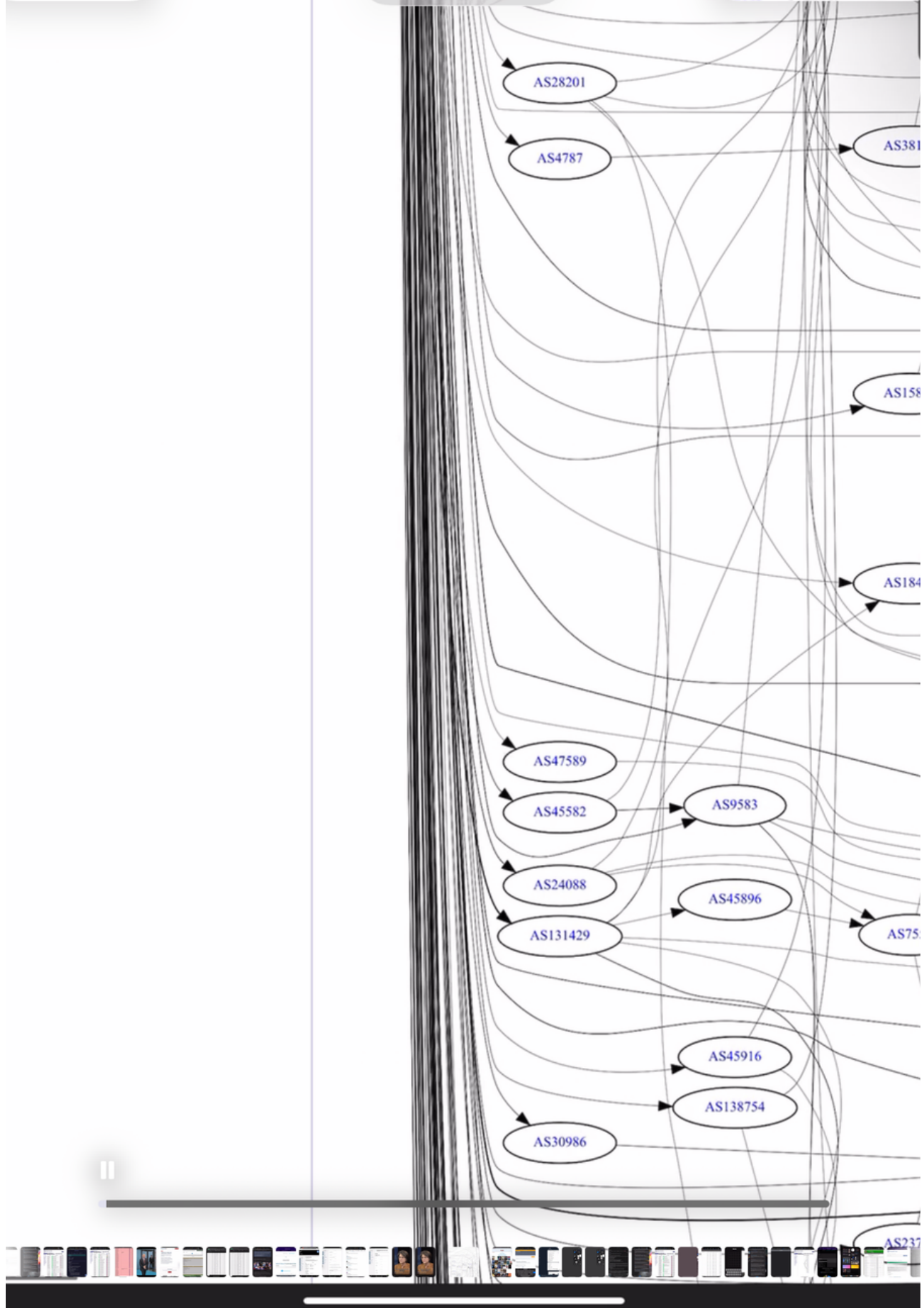
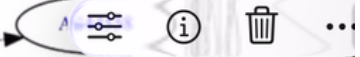


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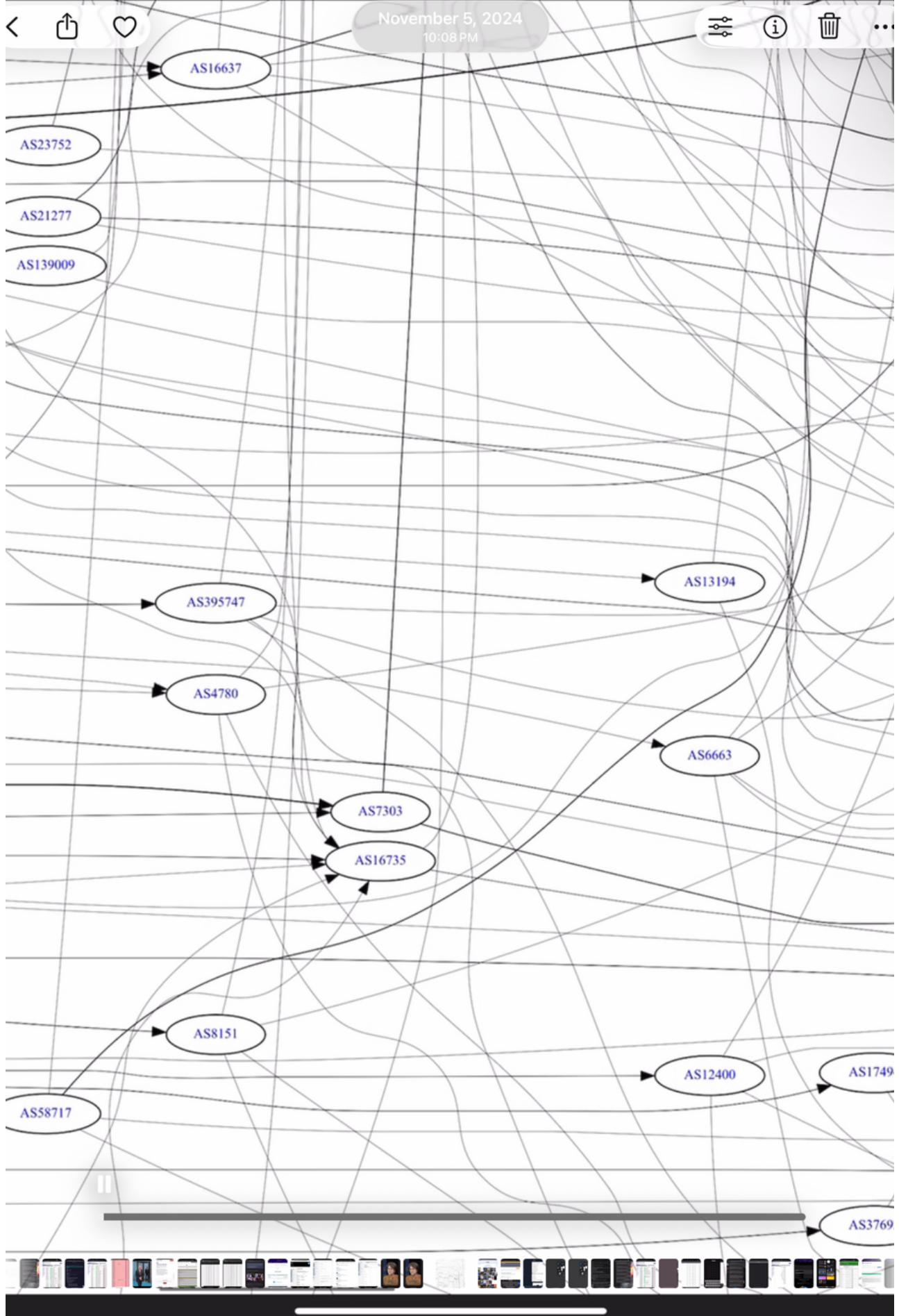
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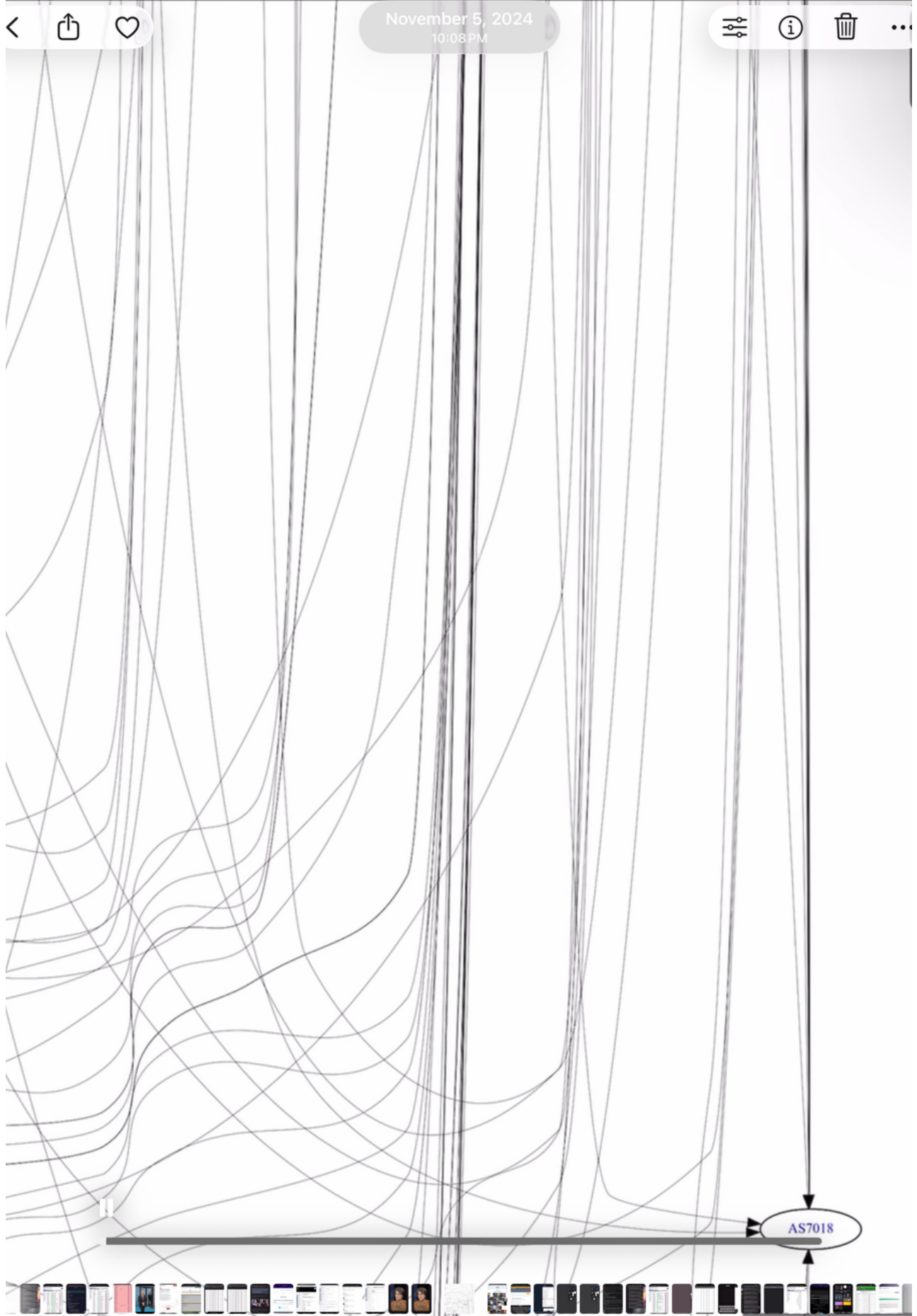
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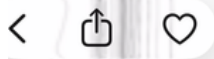


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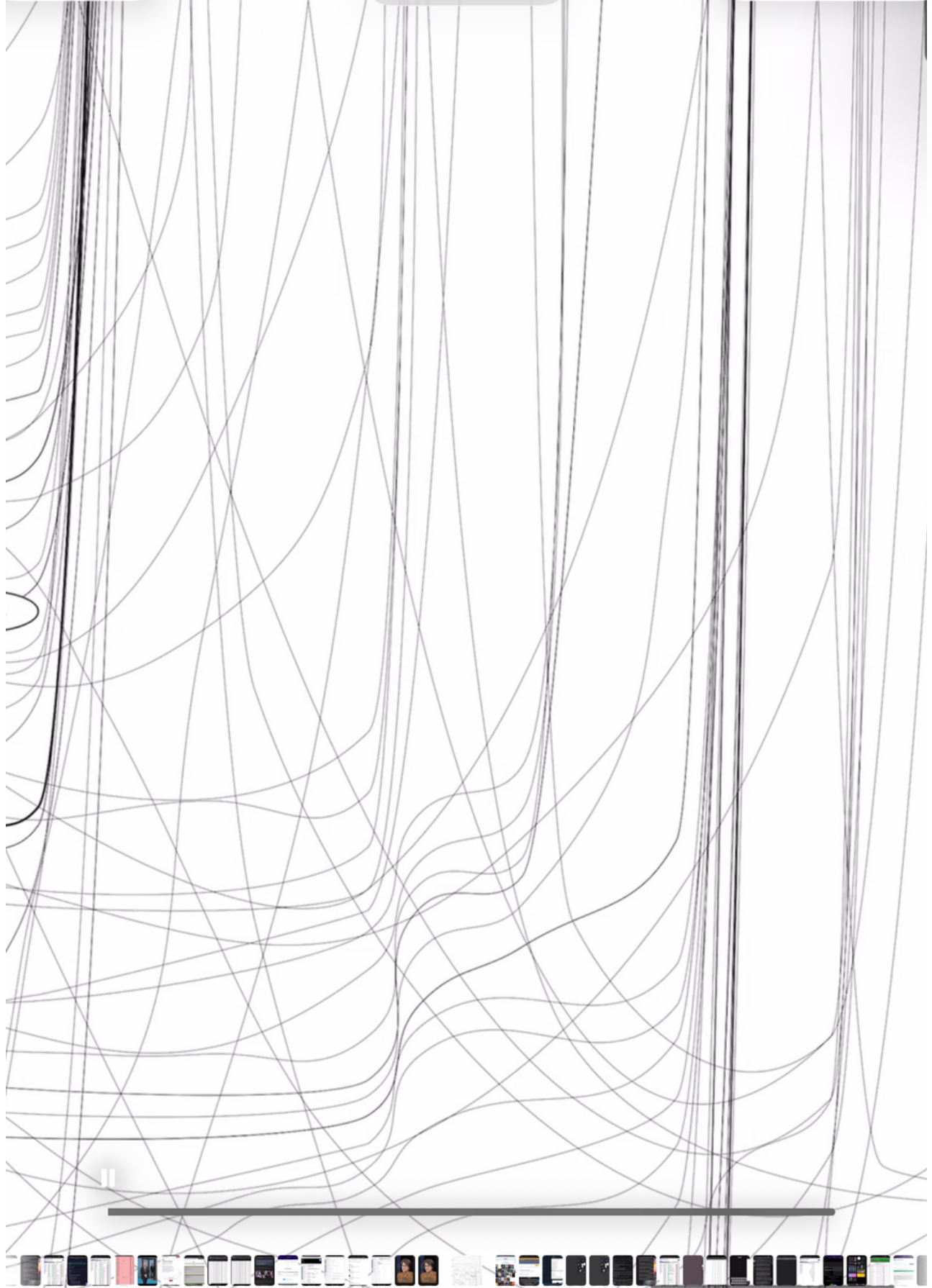
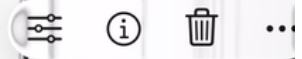


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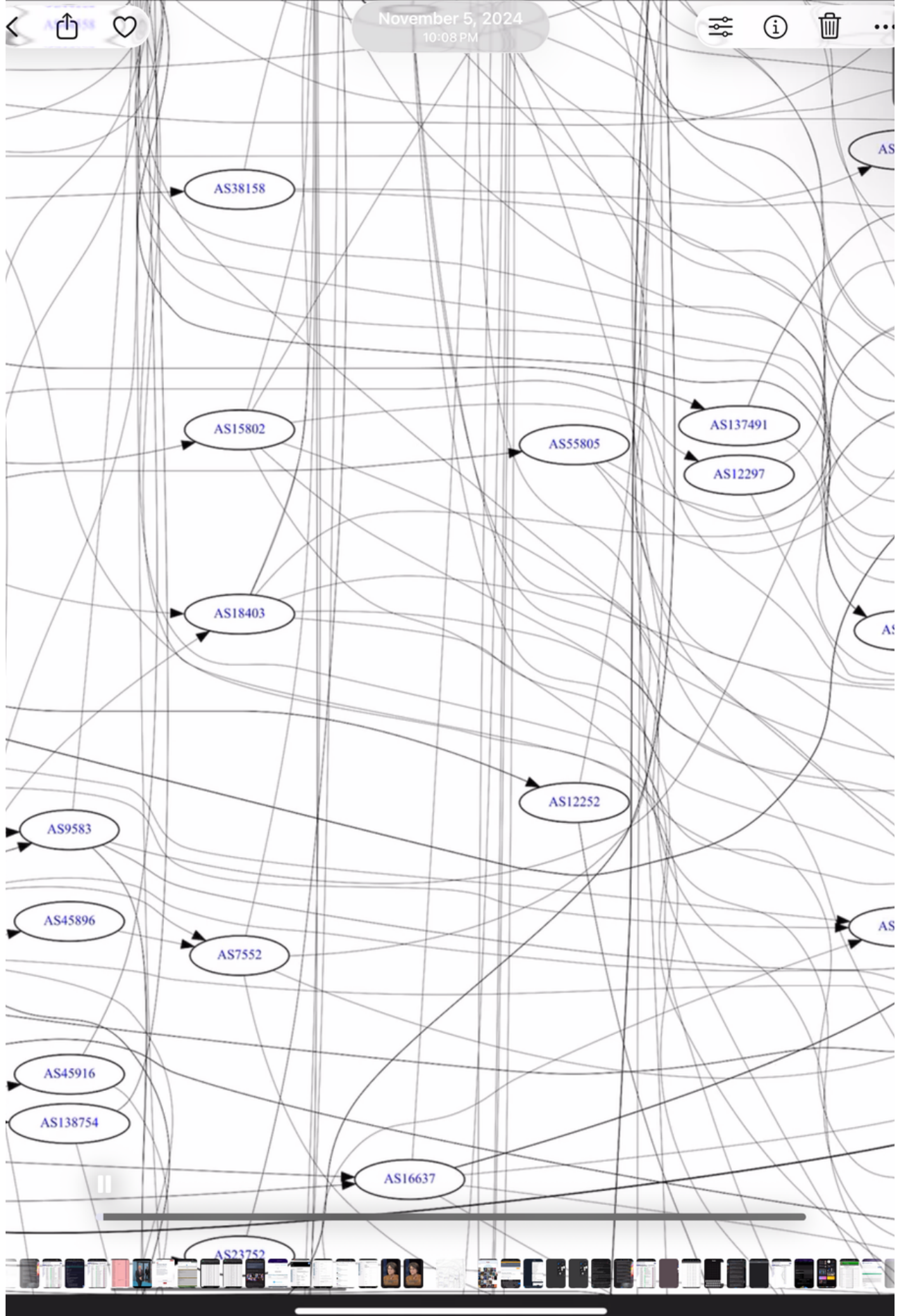




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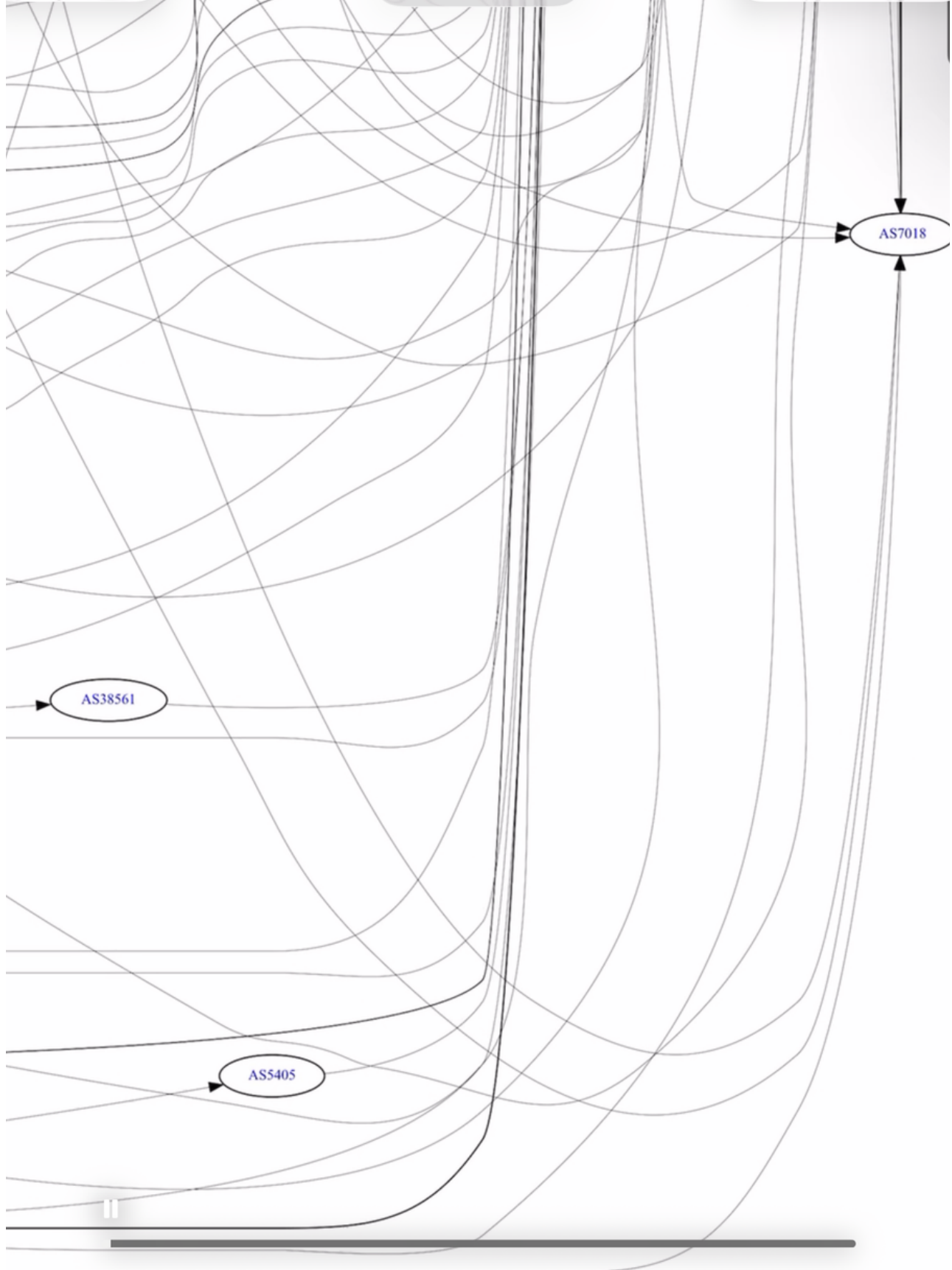
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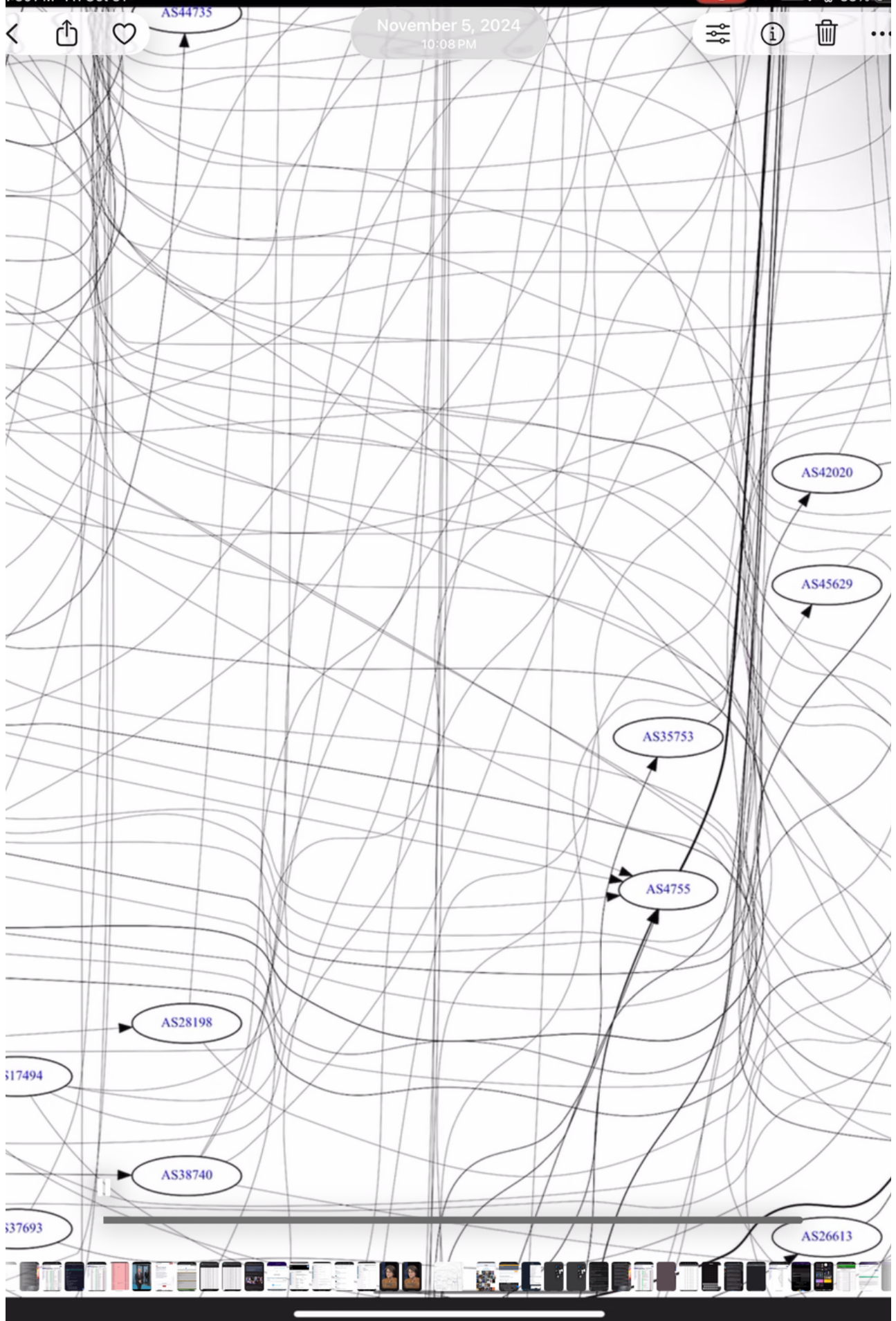
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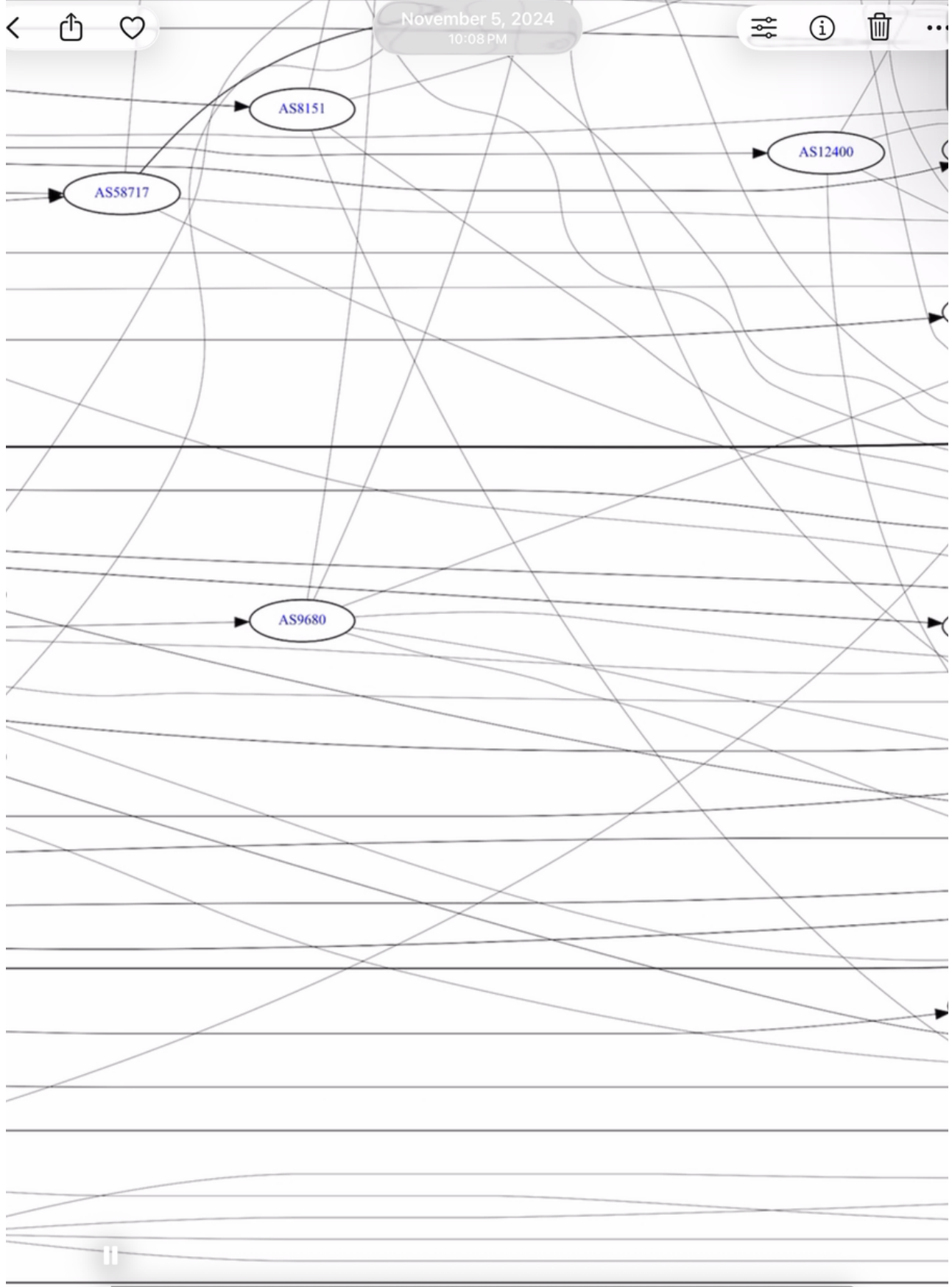
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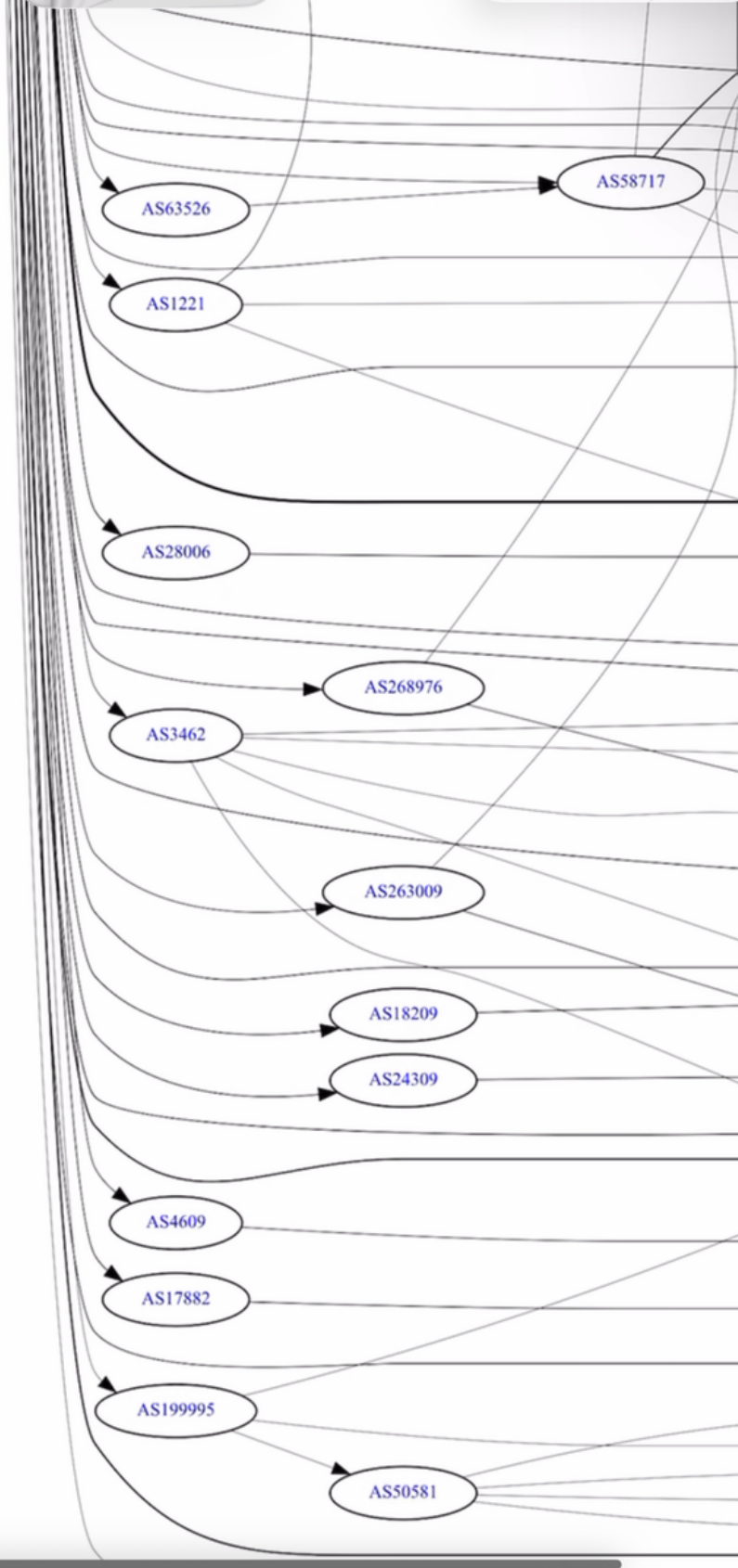




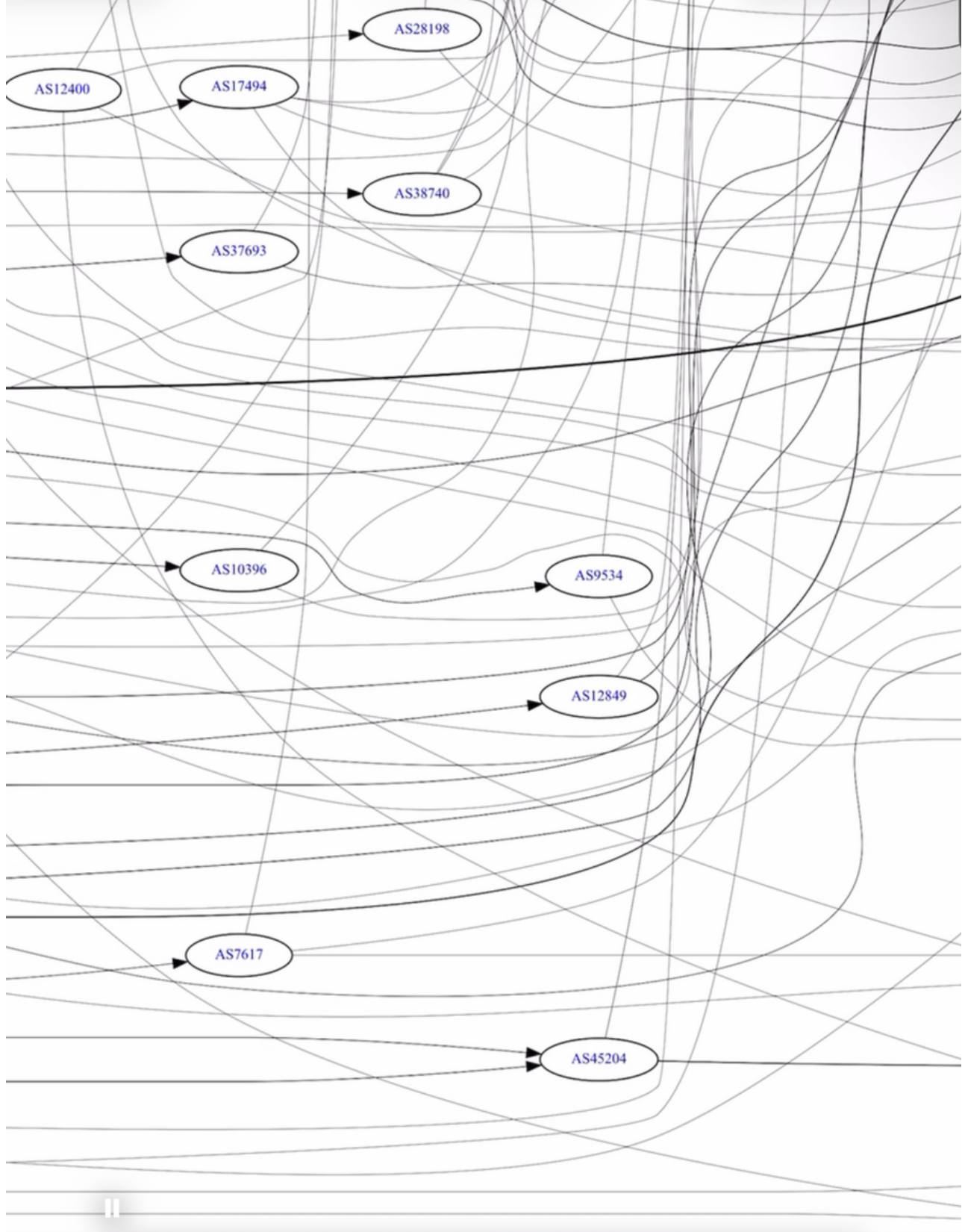
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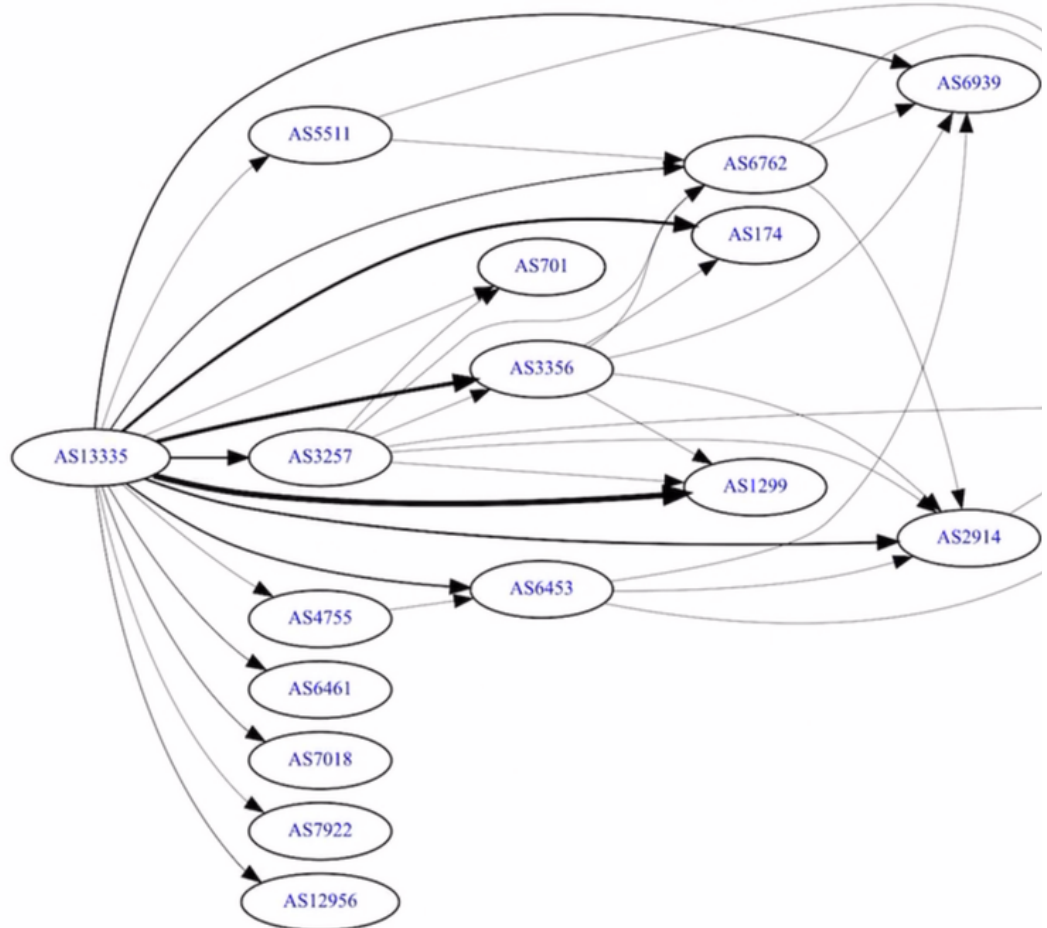
AS13335 Cloudflare, Inc.

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AS13335 IPv4 Route Propagation





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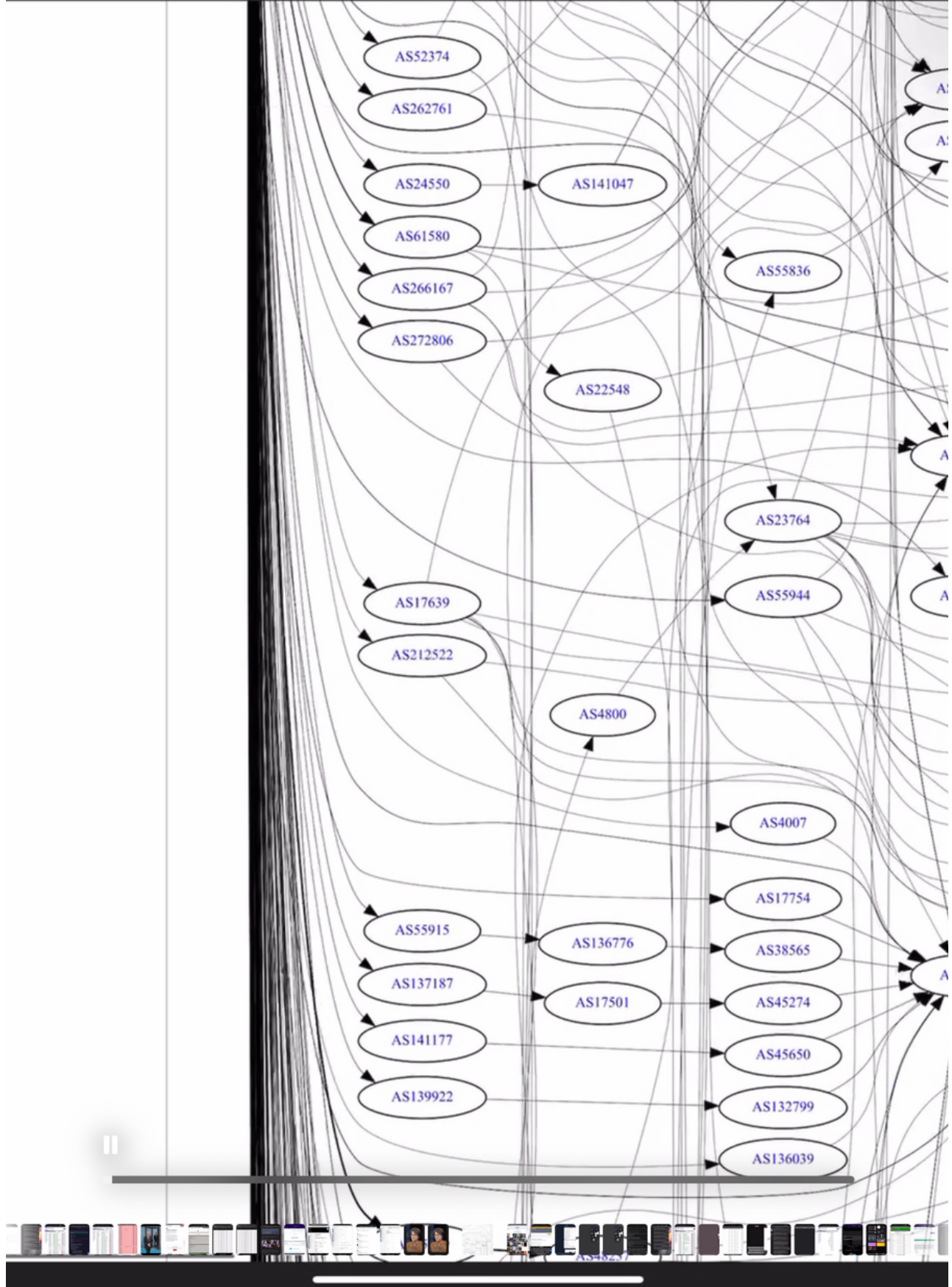
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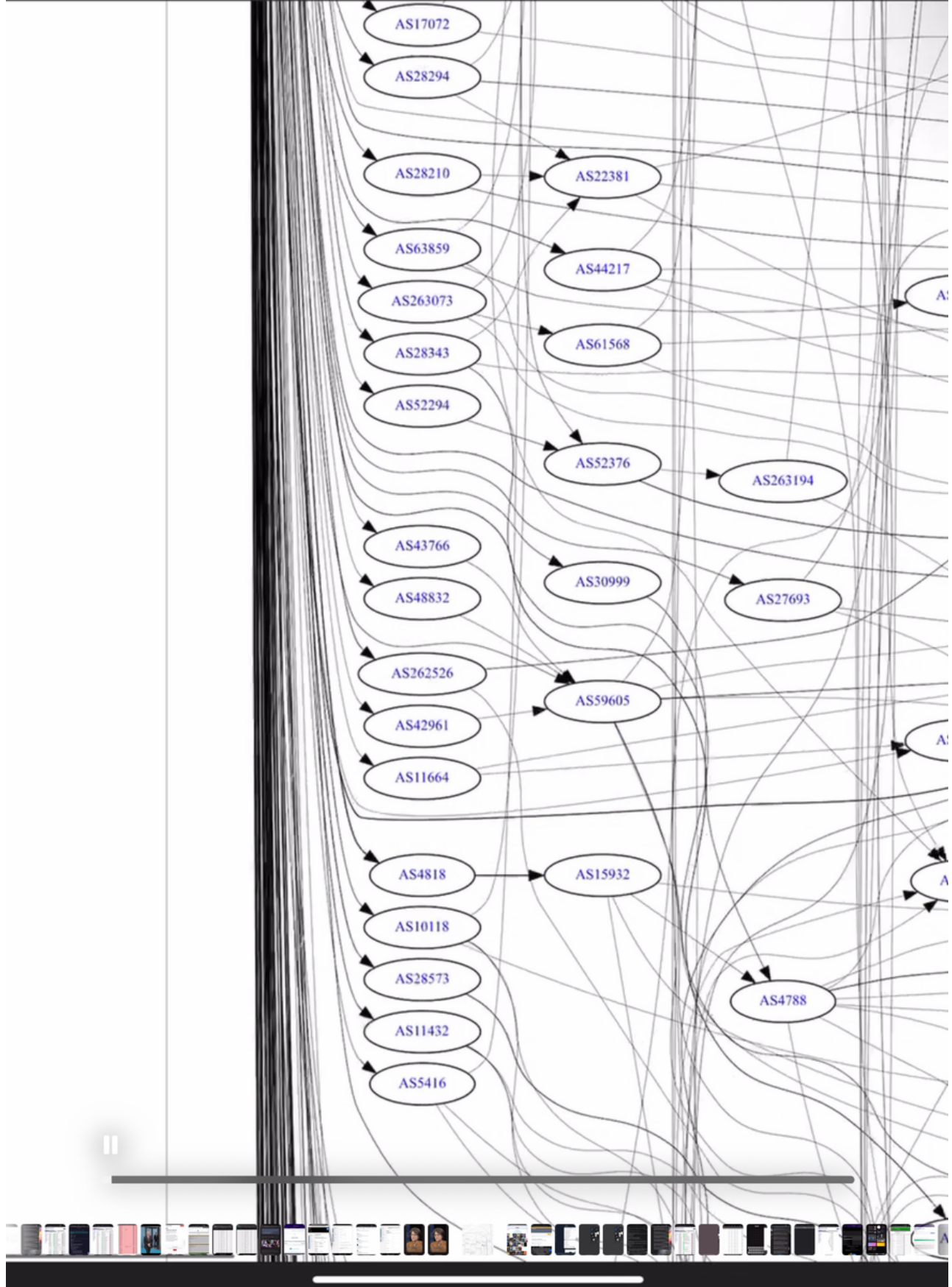
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Network Tools App
Free IPv6 Tunnel
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Joining Native
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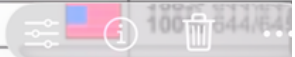
AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

Prefix	Description	Visibility
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1.1.1.0/24	APNIC and Cloudflare DNS Resolver project	100% 642/645
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8.10.148.0/24	Cloudflare, Inc.	100% 644/645
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8.20.101.0/24	Cloudflare, Inc.	100% 644/645
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8.31.160.0/24	✓	Cloudflare, Inc.	100% 642/645
8.31.161.0/24	✓	Cloudflare, Inc.	100% 642/645
8.34.69.0/24	✓	Cloudflare, Inc.	100% 644/645
8.34.71.0/24	✓	Cloudflare, Inc.	99% 639/645
8.34.200.0/24	✓	Cloudflare, Inc.	100% 644/645
8.34.201.0/24	✓	Cloudflare, Inc.	99% 639/645
8.34.202.0/24	✓	Cloudflare, Inc.	100% 644/645
8.35.57.0/24	✓	Cloudflare, Inc.	100% 644/645
8.35.58.0/24	✓	Cloudflare, Inc.	100% 644/645
8.35.59.0/24	✓	Cloudflare, Inc.	100% 644/645
8.35.149.0/24	✓	Cloudflare, Inc.	100% 644/645
8.35.211.0/24	✓	Cloudflare, Inc.	99% 639/645
8.36.216.0/24	✓	Cloudflare, Inc.	100% 642/645
8.36.217.0/24	✓	Cloudflare, Inc.	99% 639/645
8.36.218.0/24	✓	Cloudflare, Inc.	100% 644/645
8.36.219.0/24	✓	Cloudflare, Inc.	100% 644/645
8.36.220.0/24	✓	Cloudflare, Inc.	100% 644/645
8.37.41.0/24	✓	Cloudflare, Inc.	100% 644/645
8.37.43.0/24	✓	Cloudflare, Inc.	100% 642/645
8.38.147.0/24	✓	Cloudflare, Inc.	100% 644/645
8.38.148.0/24	✓	Cloudflare, Inc.	100% 644/645
8.38.149.0/24	✓	Cloudflare, Inc.	100% 642/645
8.39.6.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.18.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.125.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.126.0/24	✓	Cloudflare, Inc.	99% 639/645
8.39.201.0/24	✓	Cloudflare, Inc.	99% 641/645
8.39.202.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.203.0/24	✓	Cloudflare, Inc.	99% 641/645
8.39.204.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.205.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.206.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.212.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.213.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.214.0/24	✓	Cloudflare, Inc.	100% 644/645
8.39.215.0/24	✓	Cloudflare, Inc.	100% 644/645
8.40.26.0/24	✓	Cloudflare, Inc.	100% 642/645
8.40.27.0/24	✓	Cloudflare, Inc.	100% 642/645
8.40.28.0/24	✓	Cloudflare, Inc.	100% 644/645



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8.20.123.0/24	✓		100% 643/645
8.20.124.0/24	✓		100% 642/645
8.20.126.0/24	✓	Cloudflare, Inc.	100% 642/645
8.20.253.0/24	✓	Cloudflare, Inc.	100% 644/645
8.21.8.0/24	✓	Cloudflare, Inc.	100% 642/645
8.21.9.0/24	✓	Cloudflare, Inc.	100% 642/645
8.21.10.0/24	✓	Cloudflare, Inc.	100% 644/645
8.21.13.0/24	✓	Cloudflare, Inc.	99% 639/645
8.21.110.0/24	✓	Cloudflare, Inc.	100% 642/645
8.21.111.0/24	✓	Cloudflare, Inc.	100% 642/645
8.21.239.0/24	✓	Cloudflare, Inc.	99% 641/645
8.23.139.0/24	✓	Cloudflare, Inc.	100% 644/645
8.23.240.0/24	✓	Cloudflare, Inc.	100% 644/645
8.24.87.0/24	✓	Cloudflare, Inc.	100% 642/645
8.24.243.0/24	✓	Cloudflare, Inc.	100% 644/645
8.24.244.0/24	✓	Cloudflare, Inc.	100% 644/645
8.25.96.0/24	✓	Cloudflare, Inc.	100% 644/645
8.25.97.0/24	✓	Cloudflare, Inc.	100% 642/645
8.25.249.0/24	✓	Cloudflare, Inc.	100% 642/645
8.26.182.0/24	✓	Cloudflare, Inc.	99% 639/645
8.27.64.0/24	✓	Cloudflare, Inc.	100% 642/645
8.27.66.0/24	✓	Cloudflare, Inc.	100% 642/645
8.27.67.0/24	✓	Cloudflare, Inc.	100% 642/645
8.27.68.0/24	✓	Cloudflare, Inc.	100% 642/645
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8.28.20.0/24	✓	Cloudflare, Inc.	100% 644/645
8.28.82.0/24	✓	Cloudflare, Inc.	100% 644/645
8.28.126.0/24	✓	Cloudflare, Inc.	100% 642/645
8.28.127.0/24	✓	Cloudflare, Inc.	100% 644/645
8.28.213.0/24	✓	Cloudflare, Inc.	100% 644/645
8.29.105.0/24	✓	Cloudflare, Inc.	100% 644/645
8.29.109.0/24	✓	Cloudflare, Inc.	100% 642/645
8.29.228.0/24	✓	Cloudflare, Inc.	100% 642/645
8.29.230.0/24	✓	Cloudflare, Inc.	100% 642/645
8.29.231.0/24	✓	Cloudflare, Inc.	100% 642/645
8.30.234.0/24	✓	Cloudflare, Inc.	100% 644/645
8.31.2.0/24	✓	Cloudflare, Inc.	99% 639/645
8.31.160.0/24	✓	Cloudflare, Inc.	100% 642/645
8.31.161.0/24	✓	Cloudflare, Inc.	100% 642/645
8.31.162.0/24	✓	Cloudflare, Inc.	100% 644/645

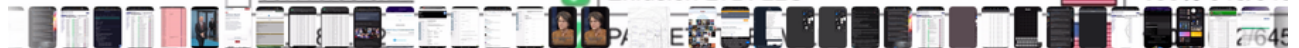
November 5, 2024
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8.39.214.0/24	✓		100% 642/645
8.39.215.0/24	✓		100% 644/645
8.40.26.0/24	✓	Cloudflare, Inc.	100% 642/645
8.40.27.0/24	✓	Cloudflare, Inc.	100% 642/645
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8.40.31.0/24	✓	Cloudflare, Inc.	100% 644/645
8.40.107.0/24	✓	Cloudflare, Inc.	100% 642/645
8.40.111.0/24	✓	Cloudflare, Inc.	100% 642/645
8.40.140.0/24	✓	Cloudflare, Inc.	99% 641/645
8.41.5.0/24	✓	Cloudflare, Inc.	100% 642/645
8.41.6.0/24	✓	Cloudflare, Inc.	100% 644/645
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8.41.36.0/24	✓	Cloudflare, Inc.	100% 642/645
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8.42.51.0/24	✓	Cloudflare, Inc.	100% 645/645
8.42.52.0/24	✓	Cloudflare, Inc.	100% 644/645
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8.42.164.0/24	✓	Cloudflare, Inc.	100% 644/645
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8.42.245.0/24	✓	Cloudflare, Inc.	100% 642/645
8.43.121.0/24	✓	Cloudflare, Inc.	100% 642/645
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8.43.226.0/24	✓	Cloudflare, Inc.	100% 642/645
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8.44.1.0/24	✓	Cloudflare, Inc.	100% 644/645
8.44.2.0/24	✓	Cloudflare, Inc.	100% 644/645
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8.44.6.0/24	✓	Cloudflare, Inc.	99% 639/645
8.44.58.0/24	✓	Cloudflare, Inc.	100% 642/645
8.44.60.0/24	✓	Cloudflare, Inc.	100% 642/645
8.44.61.0/24	✓	Cloudflare, Inc.	99% 639/645
8.44.62.0/24	✓	Cloudflare, Inc.	100% 642/645
8.44.63.0/24	✓	Cloudflare, Inc.	99% 639/645
8.45.1.0/24	✓	Cloudflare, Inc.	100% 642/645

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8.44.60.0/24			
8.44.61.0/24			
8.44.62.0/24	✓	Cloudflare, Inc.	100% 642/645
8.44.63.0/24	✓	Cloudflare, Inc.	99% 639/645
8.45.41.0/24	✓	Cloudflare, Inc.	100% 642/645
8.45.43.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.44.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.45.0/24	✓	Cloudflare, Inc.	100% 642/645
8.45.46.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.47.0/24	✓	Cloudflare, Inc.	100% 642/645
8.45.97.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.100.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.101.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.102.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.108.0/24	✓	Cloudflare, Inc.	100% 642/645
8.45.111.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.145.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.146.0/24	✓	Cloudflare, Inc.	0% 1/645
8.45.147.0/24	✓	Cloudflare, Inc.	100% 644/645
8.46.113.0/24	✓	Cloudflare, Inc.	100% 644/645
8.46.114.0/24	✓		100% 644/645
8.46.115.0/24	✓	Cloudflare, Inc.	100% 644/645
8.46.117.0/24	✓	Cloudflare, Inc.	100% 642/645
8.46.118.0/24	✓	Cloudflare, Inc.	99% 639/645
8.46.119.0/24	✓	Cloudflare, Inc.	100% 644/645
8.47.9.0/24	✓	Cloudflare, Inc.	99% 639/645
8.47.12.0/24	✓	Cloudflare, Inc.	100% 644/645
8.47.13.0/24	✓	Cloudflare, Inc.	100% 642/645
8.47.14.0/24	✓	Cloudflare, Inc.	100% 644/645
8.47.15.0/24	✓	Cloudflare, Inc.	100% 642/645
8.47.69.0/24	✓	Cloudflare, Inc.	100% 644/645
8.47.71.0/24	✓	Cloudflare, Inc.	100% 644/645
8.48.130.0/24	✓	Cloudflare, Inc.	100% 644/645
8.48.132.0/24	✓	Cloudflare, Inc.	100% 642/645
8.48.133.0/24	✓	Cloudflare, Inc.	100% 644/645
8.48.134.0/24	✓	Cloudflare, Inc.	99% 639/645
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23.227.38.0/24	✓	Shopify, Inc.	100% 643/645
23.227.39.0/24	✓	Shopify, Inc.	100% 643/645
65.110.63.0/24	✓	Enfusion LTD. LLC	100% 643/645



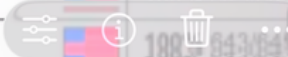
November 5, 2024
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8.45.108.0/24			100% 642/645
8.45.111.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.145.0/24	✓	Cloudflare, Inc.	100% 644/645
8.45.146.0/24	✓	Cloudflare, Inc.	0% 1/645
8.45.147.0/24	✓	Cloudflare, Inc.	100% 644/645
8.46.113.0/24	✓	Cloudflare, Inc.	100% 644/645
8.46.114.0/24	✓		100% 644/645
8.46.115.0/24	✓	Cloudflare, Inc.	100% 644/645
8.46.117.0/24	✓	Cloudflare, Inc.	100% 642/645
8.46.118.0/24	✓	Cloudflare, Inc.	99% 639/645
8.46.119.0/24	✓	Cloudflare, Inc.	100% 644/645
8.47.9.0/24	✓	Cloudflare, Inc.	99% 639/645
8.47.12.0/24	✓	Cloudflare, Inc.	100% 644/645
8.47.13.0/24	✓	Cloudflare, Inc.	100% 642/645
8.47.14.0/24	✓	Cloudflare, Inc.	100% 644/645
8.47.15.0/24	✓	Cloudflare, Inc.	100% 642/645
8.47.69.0/24	✓	Cloudflare, Inc.	100% 644/645
8.47.71.0/24	✓	Cloudflare, Inc.	100% 644/645
8.48.130.0/24	✓	Cloudflare, Inc.	100% 644/645
8.48.132.0/24	✓	Cloudflare, Inc.	100% 642/645
8.48.133.0/24	✓	Cloudflare, Inc.	100% 644/645
8.48.134.0/24	✓	Cloudflare, Inc.	99% 639/645
23.227.37.0/24	✓	Shopify, Inc.	100% 643/645
23.227.38.0/23	✓	Shopify, Inc.	100% 643/645
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66.118.0.0/22	✓	PACKETSTREAM LLC	100% 642/645
66.235.200.0/24	✓	Newfold Digital, Inc.	100% 643/645
68.67.65.0/24		SBA Edge, LLC	57% 367/645
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103.22.203.0/24	✓	Cloudflare, Inc.	100% 645/645
103.31.4.0/23			55% 353/645
103.81.228.0/24	✓	UNION BANCAIRE PRIVEE, UBP SA	100% 643/645
103.143.32.0/23	✓	CreativeLab	100% 642/645
103.156.22.0/23	✓	Creativelab Corp.	100% 642/645
104.16.0.0/12	✓	Cloudflare, Inc.	99% 640/645
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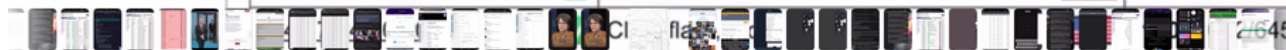


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103.22.200.0/24				
103.22.201.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 640/645
103.22.202.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645
103.22.203.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
103.31.4.0/23			🇺🇸	55% 353/645
103.81.228.0/24	✓	UNION BANCAIRE PRIVEE, UBP SA	🇨🇮	100% 643/645
103.143.32.0/23	✓	CreativeLab	🇰🇷	100% 642/645
103.156.22.0/23	✓	Creativelab Corp.	🇰🇷	100% 642/645
104.16.0.0/12	✓	Cloudflare, Inc.	🇺🇸	99% 640/645
104.16.0.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
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104.16.48.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
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104.16.96.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.16.112.0/20	✓	Cloudflare, Inc.	🇺🇸	99% 641/645
104.16.128.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
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104.16.160.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
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104.17.80.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.17.96.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.17.112.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.17.128.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.17.144.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.17.160.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.17.176.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.17.192.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.17.208.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.17.224.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645



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104.17.192.0/20			
104.17.208.0/20			
104.17.224.0/20	✓	Cloudflare, Inc.	100% 642/645
104.17.240.0/20	✓	Cloudflare, Inc.	100% 642/645
104.18.0.0/20	✓	Cloudflare, Inc.	100% 642/645
104.18.16.0/20	✓	Cloudflare, Inc.	100% 642/645
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104.18.46.0/24	✓	Cloudflare, Inc.	100% 642/645
104.18.47.0/24	✓	Cloudflare, Inc.	100% 642/645
104.18.48.0/24	✓	Cloudflare, Inc.	100% 643/645
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104.18.51.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.52.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.53.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.54.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.55.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.56.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.57.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.58.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.59.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.60.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.61.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.62.0/24	✓	Cloudflare, Inc.	100% 643/645
104.18.63.0/24	✓	Cloudflare, Inc.	100% 643/645

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104.20.128.0/20			
104.20.144.0/20			
104.20.160.0/20		Cloudflare, Inc.	100% 642/645
104.20.176.0/20		Cloudflare, Inc.	100% 642/645
104.20.192.0/20		Cloudflare, Inc.	100% 642/645
104.20.208.0/20		Cloudflare, Inc.	100% 642/645
104.20.224.0/20		Cloudflare, Inc.	100% 642/645
104.20.240.0/20		Cloudflare, Inc.	100% 642/645
104.21.0.0/19		Cloudflare, Inc.	100% 642/645
104.21.0.0/20		Cloudflare, Inc.	100% 642/645
104.21.16.0/20		Cloudflare, Inc.	100% 642/645
104.21.32.0/19		Cloudflare, Inc.	100% 642/645
104.21.32.0/20		Cloudflare, Inc.	100% 642/645
104.21.48.0/20		Cloudflare, Inc.	100% 642/645
104.21.64.0/19		Cloudflare, Inc.	100% 642/645
104.21.64.0/20		Cloudflare, Inc.	100% 642/645
104.21.80.0/20		Cloudflare, Inc.	100% 642/645
104.21.96.0/19		Cloudflare, Inc.	100% 642/645
104.21.96.0/20		Cloudflare, Inc.	100% 642/645
104.21.112.0/20		Cloudflare, Inc.	100% 642/645
104.21.192.0/19		Cloudflare, Inc.	100% 642/645
104.21.192.0/20		Cloudflare, Inc.	100% 642/645
104.21.208.0/20		Cloudflare, Inc.	100% 642/645
104.21.224.0/20		Cloudflare, Inc.	100% 643/645
104.22.0.0/20		Cloudflare, Inc.	100% 642/645
104.22.16.0/20		Cloudflare, Inc.	100% 642/645
104.22.32.0/20		Cloudflare, Inc.	100% 642/645
104.22.48.0/20		Cloudflare, Inc.	100% 642/645
104.22.64.0/20		Cloudflare, Inc.	100% 642/645
104.23.96.0/20		Cloudflare, Inc.	100% 642/645
104.23.112.0/20		Cloudflare, Inc.	100% 642/645
104.23.128.0/20		Cloudflare, Inc.	100% 642/645
104.24.0.0/20		Cloudflare, Inc.	100% 642/645
104.24.16.0/20		Cloudflare, Inc.	100% 642/645
104.24.32.0/20		Cloudflare, Inc.	100% 642/645
104.24.48.0/20		Cloudflare, Inc.	100% 642/645
104.24.64.0/20		Cloudflare, Inc.	100% 642/645
104.24.80.0/20		Cloudflare, Inc.	100% 642/645
104.24.128.0/20		Cloudflare, Inc.	100% 642/645
104.24.144.0/20		Cloudflare, Inc.	100% 642/645



November 5, 2024
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100% 642/645



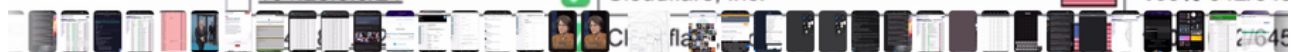
104.18.63.0/24	✓	Cloudflare, Inc.		100% 642/645
104.18.64.0/20	✓	Cloudflare, Inc.		100% 642/645
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104.18.96.0/20	✓	Cloudflare, Inc.		100% 642/645
104.18.112.0/20	✓	Cloudflare, Inc.		100% 642/645
104.18.128.0/20	✓	Cloudflare, Inc.		100% 642/645
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104.18.160.0/20	✓	Cloudflare, Inc.		100% 642/645
104.18.176.0/20	✓	Cloudflare, Inc.		100% 642/645
104.18.192.0/20	✓	Cloudflare, Inc.		100% 642/645
104.18.208.0/20	✓	Cloudflare, Inc.		100% 642/645
104.18.224.0/20	✓	Cloudflare, Inc.		100% 642/645
104.18.240.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.0.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.16.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.32.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.48.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.64.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.80.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.96.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.112.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.128.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.144.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.160.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.176.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.192.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.208.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.224.0/20	✓	Cloudflare, Inc.		100% 642/645
104.19.240.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.0.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.16.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.32.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.48.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.64.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.80.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.96.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.112.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.128.0/20	✓	Cloudflare, Inc.		100% 642/645
104.20.144.0/20	✓	Cloudflare, Inc.		100% 642/645



November 5, 2024

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104.24.64.0/20			
104.24.80.0/20			
104.24.128.0/20	✓	Cloudflare, Inc.	100% 642/645
104.24.144.0/20	✓	Cloudflare, Inc.	100% 642/645
104.24.160.0/20	✓	Cloudflare, Inc.	100% 642/645
104.24.176.0/20	✓	Cloudflare, Inc.	100% 642/645
104.24.192.0/20	✓	Cloudflare, Inc.	100% 642/645
104.24.208.0/20	✓	Cloudflare, Inc.	100% 642/645
104.24.224.0/20	✓	Cloudflare, Inc.	100% 642/645
104.24.240.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.0.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.16.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.32.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.48.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.64.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.80.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.96.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.112.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.128.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.144.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.160.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.176.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.192.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.208.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.224.0/20	✓	Cloudflare, Inc.	100% 642/645
104.25.240.0/20	✓	Cloudflare, Inc.	100% 642/645
104.26.0.0/20	✓	Cloudflare, Inc.	99% 641/645
104.27.0.0/20	✓	Cloudflare, Inc.	100% 642/645
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104.27.80.0/20	✓	Cloudflare, Inc.	100% 642/645
104.27.96.0/20	✓	Cloudflare, Inc.	100% 642/645
104.27.112.0/20	✓	Cloudflare, Inc.	100% 642/645
104.27.192.0/20	✓	Cloudflare, Inc.	100% 642/645
104.28.0.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.1.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.2.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.3.0/24	✓	Cloudflare, Inc.	100% 642/645

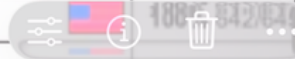


November 5, 2024

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104.28.0.0/24			
104.28.1.0/24			
104.28.2.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.3.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.4.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.6.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.7.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.9.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.10.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.11.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.12.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.19.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.20.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.21.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.23.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.24.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.25.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.26.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.27.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.32.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.33.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.34.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.37.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.38.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.39.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.40.0/24	✓	Cloudflare, Inc.	100% 642/645

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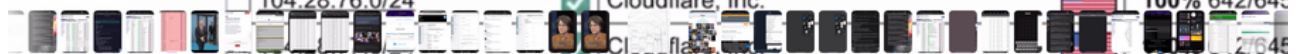
104.28.73.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.74.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.75.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.76.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.77.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.78.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.79.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.80.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.82.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.84.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.87.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.91.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.92.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.93.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.94.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.95.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.96.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.97.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.112.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.113.0/24	✓	Cloudflare, Inc.	100% 642/645



November 5, 2024

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104.28.37.0/24			
104.28.38.0/24			
104.28.39.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.40.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.41.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.47.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.49.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.62.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.63.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.66.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.67.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.68.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.69.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.74.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.75.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.76.0/24	✓	Cloudflare, Inc.	100% 642/645





November 5, 2024

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104.28.153.0/24



Cloudflare, Inc.



100% 642/645

104.28.154.0/24



Cloudflare, Inc.



100% 642/645

104.28.155.0/24



Cloudflare, Inc.



100% 642/645

104.28.156.0/24



Cloudflare, Inc.



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104.28.157.0/24



Cloudflare, Inc.



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104.28.158.0/24



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104.28.159.0/24



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104.28.160.0/24



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104.28.161.0/24



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104.28.162.0/24



Cloudflare, Inc.



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104.28.163.0/24



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104.28.164.0/24



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Cloudflare, Inc.



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104.28.169.0/24



Cloudflare, Inc.



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104.28.170.0/24



Cloudflare, Inc.



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104.28.171.0/24



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104.28.172.0/24



Cloudflare, Inc.



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104.28.173.0/24



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104.28.174.0/24



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104.28.175.0/24



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Cloudflare, Inc.



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104.28.179.0/24



Cloudflare, Inc.



100% 642/645

104.28.180.0/24



Cloudflare, Inc.



100% 642/645

104.28.181.0/24



Cloudflare, Inc.



100% 642/645

104.28.182.0/24



Cloudflare, Inc.



100% 642/645

104.28.183.0/24



Cloudflare, Inc.



100% 642/645

104.28.184.0/24



Cloudflare, Inc.



100% 642/645

104.28.185.0/24



Cloudflare, Inc.



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104.28.186.0/24



Cloudflare, Inc.



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104.28.187.0/24



Cloudflare, Inc.



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104.28.188.0/24



Cloudflare, Inc.



100% 642/645

104.28.189.0/24



Cloudflare, Inc.



100% 642/645

104.28.190.0/24



Cloudflare, Inc.



100% 642/645

104.28.191.0/24



Cloudflare, Inc.



100% 642/645



November 5, 2024
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104.28.149.0/24			
104.28.150.0/24			
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104.28.155.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.158.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.159.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.160.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.161.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.162.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.163.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.164.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.165.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.166.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.167.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.168.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.169.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.170.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.171.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.172.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.173.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.174.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.175.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.176.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.177.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.178.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.179.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.180.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.181.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.182.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.183.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.184.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.185.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.186.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.187.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.188.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.189.0/24	✓	Cloudflare, Inc.	100% 642/645

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104.28.110.0/24



Cloudflare, Inc.



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104.28.111.0/24



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104.28.112.0/24



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104.28.113.0/24



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104.28.114.0/24



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104.28.115.0/24



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104.28.121.0/24



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Cloudflare, Inc.

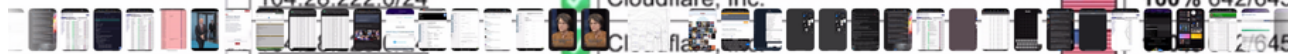


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104.28.183.0/24			
104.28.184.0/24			
104.28.185.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.186.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.187.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.191.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.212.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.213.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.214.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.216.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.28.218.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.219.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.220.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.221.0/24	✓	Cloudflare, Inc.	100% 642/645
104.28.222.0/24	✓	Cloudflare, Inc.	100% 642/645



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104.28.221.0/24					
104.28.222.0/24					
104.28.223.0/24	Writing Tool	Cloudflare, Inc.	Translate	Search Web	100% 642/645
104.28.224.0/24	✓	Cloudflare, Inc.			100% 642/645
104.28.225.0/24	✓	Cloudflare, Inc.			100% 642/645
104.28.226.0/24	✓	Cloudflare, Inc.			100% 642/645
104.28.227.0/24	✓	Cloudflare, Inc.			100% 642/645
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104.28.230.0/24	✓	Cloudflare, Inc.			100% 642/645
104.28.231.0/24	✓	Cloudflare, Inc.			100% 642/645
104.28.232.0/24	✓	Cloudflare, Inc.			100% 642/645
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104.28.236.0/24	✓	Cloudflare, Inc.			100% 642/645
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104.28.238.0/24	✓	Cloudflare, Inc.			100% 642/645
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104.28.244.0/24	✓	Cloudflare, Inc.			100% 642/645
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104.28.246.0/24	✓	Cloudflare, Inc.			100% 642/645
104.28.247.0/24	✓	Cloudflare, Inc.			100% 642/645
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104.28.252.0/24	✓	Cloudflare, Inc.			100% 642/645
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104.28.254.0/24	✓	Cloudflare, Inc.			100% 642/645
104.28.255.0/24	✓	Cloudflare, Inc.			100% 642/645
104.29.0.0/24	✓	Cloudflare, Inc.			100% 644/645
104.29.1.0/24	✓	Cloudflare, Inc.			100% 644/645
104.29.2.0/24	✓	Cloudflare, Inc.			100% 644/645
104.29.3.0/24	✓	Cloudflare, Inc.			100% 644/645
104.29.4.0/24	✓	Cloudflare, Inc.			100% 642/645



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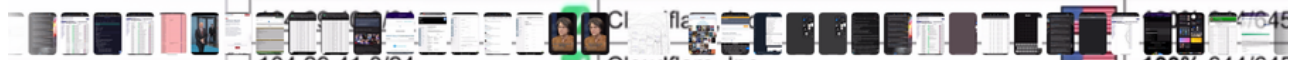
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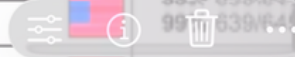
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104.29.73.0/24			
104.29.74.0/24	✓	Cloudflare, Inc.	100% 642/645
104.29.75.0/24	✓	Cloudflare, Inc.	100% 642/645
104.29.76.0/24	✓	Cloudflare, Inc.	100% 642/645
104.29.77.0/24	✓	Cloudflare, Inc.	99% 639/645
104.29.78.0/24	✓	Cloudflare, Inc.	99% 639/645
104.29.79.0/24	✓	Cloudflare, Inc.	99% 639/645
104.29.80.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.81.0/24	✓	Cloudflare, Inc.	100% 644/645
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104.29.85.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.86.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.87.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.88.0/24	✓	Cloudflare, Inc.	100% 643/645
104.29.89.0/24	✓	Cloudflare, Inc.	99% 639/645
104.29.90.0/24	✓	Cloudflare, Inc.	100% 642/645
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104.29.92.0/24	✓	Cloudflare, Inc.	99% 639/645
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104.29.94.0/24	✓	Cloudflare, Inc.	100% 642/645
104.29.95.0/24	✓	Cloudflare, Inc.	100% 644/645
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104.29.97.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.98.0/24	✓	Cloudflare, Inc.	100% 644/645
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104.29.100.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.101.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.102.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.104.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.105.0/24	✓	Cloudflare, Inc.	99% 639/645
104.29.106.0/24	✓	Cloudflare, Inc.	99% 639/645
104.29.107.0/24	✓	Cloudflare, Inc.	99% 639/645
104.29.108.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.109.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.110.0/24	✓	Cloudflare, Inc.	99% 639/645
104.29.112.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.113.0/24	✓	Cloudflare, Inc.	100% 644/645
104.29.114.0/24	✓	Cloudflare, Inc.	99% 639/645
104.29.115.0/24	✓	Cloudflare, Inc.	100% 642/645
104.29.116.0/24	✓	Cloudflare, Inc.	99% 639/645



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104.29.112.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 639/645
104.29.113.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.29.114.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 639/645
104.29.115.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.29.116.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 639/645
104.29.117.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.29.121.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 639/645
104.29.122.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.29.123.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 639/645
104.30.0.0/22	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.4.0/22	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.8.0/22	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.12.0/22	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.128.0/23	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.132.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.133.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.134.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.135.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.136.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.137.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.160.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.30.176.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.31.0.0/21	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.31.16.0/23	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
104.31.18.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645
104.31.19.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
108.162.192.0/20	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
108.162.192.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
108.162.193.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
108.162.194.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
108.162.195.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
108.162.196.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
108.162.198.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 644/645
108.162.210.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645
108.162.211.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645
108.162.212.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645
108.162.213.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645
108.162.216.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645
108.162.217.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645
108.162.218.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645





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99% 639/645

104.29.55.0/24



Cloudflare, Inc.



99% 639/645

104.29.57.0/24



Cloudflare, Inc.



100% 642/645

104.29.58.0/24



Cloudflare, Inc.



100% 644/645

104.29.59.0/24



Cloudflare, Inc.



100% 644/645

104.29.60.0/24



Cloudflare, Inc.



100% 644/645

104.29.61.0/24



Cloudflare, Inc.



99% 639/645

104.29.62.0/24



Cloudflare, Inc.



99% 639/645

104.29.63.0/24



Cloudflare, Inc.



100% 642/645

104.29.65.0/24



Cloudflare, Inc.



100% 644/645

104.29.66.0/24



Cloudflare, Inc.



100% 644/645

104.29.67.0/24



Cloudflare, Inc.



100% 644/645

104.29.68.0/24



Cloudflare, Inc.



100% 644/645

104.29.69.0/24



Cloudflare, Inc.



100% 644/645

104.29.70.0/24



Cloudflare, Inc.



99% 639/645

104.29.71.0/24



Cloudflare, Inc.



99% 639/645

104.29.72.0/24



Cloudflare, Inc.



99% 639/645

104.29.73.0/24



Cloudflare, Inc.



99% 639/645

104.29.74.0/24



Cloudflare, Inc.



100% 642/645

104.29.75.0/24



Cloudflare, Inc.



100% 642/645

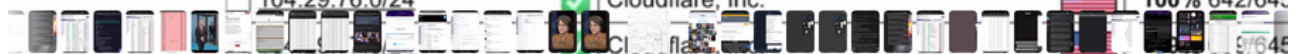
104.29.76.0/24



Cloudflare, Inc.



100% 642/645



November 5, 2024

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108.162.198.0/24			
108.162.210.0/24			
108.162.211.0/24	✓	Cloudflare, Inc.	100% 643/645
108.162.212.0/24	✓	Cloudflare, Inc.	100% 643/645
108.162.213.0/24	✓	Cloudflare, Inc.	100% 643/645
108.162.216.0/24	✓	Cloudflare, Inc.	99% 640/645
108.162.217.0/24	✓	Cloudflare, Inc.	100% 643/645
108.162.218.0/24	✓	Cloudflare, Inc.	99% 640/645
108.162.220.0/24	✓	Cloudflare, Inc.	99% 640/645
108.162.221.0/24	✓	Cloudflare, Inc.	99% 640/645
108.162.226.0/24	✓	Cloudflare, Inc.	100% 645/645
108.162.227.0/24	✓	Cloudflare, Inc.	100% 645/645
108.162.235.0/24	✓	Cloudflare, Inc.	100% 643/645
108.162.236.0/24	✓	Cloudflare, Inc.	100% 643/645
108.162.237.0/24	✓	Cloudflare, Inc.	100% 643/645
108.162.238.0/24	✓	Cloudflare, Inc.	100% 643/645
108.162.239.0/24	✓	Cloudflare, Inc.	99% 640/645
108.162.240.0/24	✓	Cloudflare, Inc.	100% 642/645
108.162.241.0/24	✓	Cloudflare, Inc.	99% 640/645
108.162.242.0/24	✓	Cloudflare, Inc.	99% 640/645
108.162.243.0/24	✓	Cloudflare, Inc.	100% 642/645
108.162.244.0/24	✓	Cloudflare, Inc.	100% 642/645
108.162.245.0/24	✓	Cloudflare, Inc.	100% 642/645
108.162.246.0/24	✓	Cloudflare, Inc.	100% 642/645
108.162.247.0/24	✓	Cloudflare, Inc.	100% 645/645
108.162.248.0/24	✓	Cloudflare, Inc.	100% 645/645
108.162.249.0/24	✓	Cloudflare, Inc.	100% 645/645
108.162.250.0/24	✓	Cloudflare, Inc.	100% 645/645
108.162.252.0/24	✓	Cloudflare, Inc.	1% 5/645
108.162.253.0/24	✓	Cloudflare, Inc.	3% 18/645
108.162.254.0/24	✓	Cloudflare, Inc.	0% 3/645
131.0.72.0/22	✓	CloudFlare Latin America S.R.L.	100% 643/645
141.101.65.0/24	✓	CloudFlare, Inc.	100% 643/645
141.101.66.0/24	✓	CloudFlare, Inc.	100% 645/645
141.101.67.0/24	✓	CloudFlare, Inc.	100% 645/645
141.101.68.0/24	✓	CloudFlare, Inc.	100% 645/645
141.101.69.0/24	✓	CloudFlare, Inc.	100% 645/645
141.101.70.0/24	✓	CloudFlare, Inc.	100% 645/645
141.101.71.0/24	✓	CloudFlare, Inc.	100% 645/645
141.101.72.0/24	✓	CloudFlare, Inc.	99% 640/645

November 5, 2024
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100% 645/645

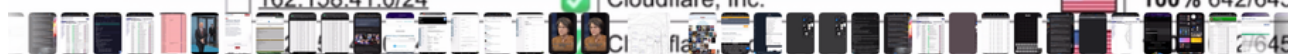
141.101.66.0/24	✓	Cloudflare, Inc.	100% 645/645
141.101.67.0/24	✓	Cloudflare, Inc.	100% 645/645
141.101.68.0/24	✓	Cloudflare, Inc.	100% 645/645
141.101.69.0/24	✓	Cloudflare, Inc.	100% 645/645
141.101.70.0/24	✓	Cloudflare, Inc.	100% 645/645
141.101.71.0/24	✓	Cloudflare, Inc.	100% 645/645
141.101.72.0/24	✓	Cloudflare, Inc.	99% 640/645
141.101.73.0/24	✓	Cloudflare, Inc.	99% 640/645
141.101.74.0/24	✓	Cloudflare CDN network	99% 640/645
141.101.75.0/24	✓	Cloudflare CDN network	100% 643/645
141.101.76.0/23	✓	Cloudflare Inc	100% 643/645
141.101.82.0/24	✓	Cloudflare CDN network	100% 643/645
141.101.83.0/24	✓	Cloudflare CDN network	100% 643/645
141.101.84.0/24	✓	Cloudflare CDN network	100% 643/645
141.101.85.0/24	✓	Cloudflare CDN network	100% 643/645
141.101.86.0/24	✓	Cloudflare CDN network	99% 640/645
141.101.87.0/24	✓	Cloudflare CDN network	99% 640/645
141.101.90.0/24	✓	Cloudflare CDN network	100% 643/645
141.101.93.0/24	✓	Cloudflare CDN network	99% 640/645
141.101.94.0/24	✓	Cloudflare CDN network	100% 643/645
141.101.95.0/24	✓	Cloudflare CDN network	100% 645/645
141.101.96.0/24	✓	Cloudflare CDN network	100% 645/645
141.101.97.0/24	✓	Cloudflare CDN network	100% 645/645
141.101.98.0/24	✓	Cloudflare CDN network	100% 645/645
141.101.99.0/24	✓	Cloudflare CDN network	100% 645/645
141.101.100.0/24	✓	Cloudflare CDN network	100% 645/645
141.101.104.0/24	✓	Cloudflare CDN network	100% 643/645
141.101.105.0/24	✓	Cloudflare CDN network	99% 640/645
141.101.108.0/24	✓	Cloudflare CDN network	100% 645/645
141.101.109.0/24	✓	Cloudflare CDN network	100% 645/645
141.101.110.0/24	✓	Cloudflare CDN network	100% 645/645
141.101.112.0/20	✓	Cloudflare Inc	100% 643/645
141.101.112.0/23	✓	Cloudflare, Inc.	100% 642/645
141.101.114.0/23	✓	Cloudflare, Inc.	100% 642/645
141.101.120.0/22	✓	Cloudflare CDN network	100% 642/645
150.48.128.0/18	✓	Transferred to the ARIN region on 2024-05-23T11:11:11Z.	100% 643/645
159.242.242.0/24	✓	PayPal, Inc.	100% 643/645
162.158.0.0/22	✓	Cloudflare, Inc.	100% 645/645
162.158.4.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.5.0/24	✓	Cloudflare, Inc.	100% 645/645

November 5, 2024
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VPN 100% 642/645



141.101.120.0/22		Transferred to the ARIN region on 2024-05-23T11:11:11Z.		100% 643/645
150.48.128.0/18	✓			100% 643/645
159.242.242.0/24	✓	PayPal, Inc.		100% 643/645
162.158.0.0/22	✓	Cloudflare, Inc.		100% 645/645
162.158.4.0/24	✓	Cloudflare, Inc.		99% 640/645
162.158.5.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.6.0/24	✓	Cloudflare, Inc.		100% 643/645
162.158.7.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.8.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.9.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.10.0/24	✓	Cloudflare, Inc.		100% 642/645
162.158.11.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.12.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.13.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.14.0/24	✓			100% 643/645
162.158.15.0/24	✓	Cloudflare, Inc.		100% 643/645
162.158.16.0/22	✓	Cloudflare, Inc.		100% 645/645
162.158.20.0/22	✓	Cloudflare, Inc.		100% 645/645
162.158.20.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.21.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.22.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.23.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.24.0/23	✓	Cloudflare, Inc.		100% 645/645
162.158.25.0/24	✓	Cloudflare, Inc.		100% 643/645
162.158.26.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.27.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.28.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.29.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.30.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.31.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.32.0/24	✓	Cloudflare, Inc.		100% 643/645
162.158.33.0/24	✓	Cloudflare, Inc.		100% 642/645
162.158.34.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.36.0/24	✓	Cloudflare, Inc.		100% 643/645
162.158.37.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.38.0/24	✓	Cloudflare, Inc.		100% 643/645
162.158.39.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.40.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.41.0/24	✓	Cloudflare, Inc.		100% 642/645





November 5, 2024

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162.158.31.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.32.0/24	✓	Cloudflare, Inc.	100% 642/645
162.158.33.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.34.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.36.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.37.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.38.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.39.0/24	✓	Cloudflare, Inc.	100% 642/645
162.158.40.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.41.0/24	✓	Cloudflare, Inc.	100% 645/645
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162.158.52.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.53.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.54.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.55.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.56.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.59.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.61.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.62.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.63.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.72.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.73.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.74.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.75.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.76.0/22	✓	Cloudflare, Inc.	99% 640/645
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162.158.83.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.84.0/22	✓	Cloudflare, Inc.	100% 643/645
162.158.84.0/24	✓	Cloudflare, Inc.	73% 469/645
162.158.89.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.90.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.91.0/24	✓	Cloudflare, Inc.	99% 640/645



172.71.233.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.234.0/24	✓	Cloudflare, Inc.		99% 640/645
172.71.235.0/24	✓	Cloudflare, Inc.		99% 640/645
172.71.237.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.238.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.239.0/24	✓	Cloudflare, Inc.		99% 640/645
172.71.242.0/24	✓			99% 640/645
172.71.245.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.246.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.247.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.249.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.250.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.251.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.252.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.253.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.254.0/24	✓	Cloudflare, Inc.		99% 640/645
172.71.255.0/24	✓	Cloudflare, Inc.		99% 640/645
173.245.49.0/24	✓	Cloudflare, Inc.		100% 643/645
173.245.54.0/24	✓	Cloudflare, Inc.		100% 645/645
173.245.58.0/24	✓	Cloudflare, Inc.		100% 642/645
173.245.59.0/24	✓	Cloudflare, Inc.		100% 642/645
173.245.63.0/24	✓	Cloudflare, Inc.		99% 640/645
185.146.172.0/24	✓	Shopify Sweden AB		100% 643/645
185.146.173.0/24	✓	Shopify Sweden AB		100% 643/645
188.114.96.0/24	✓	CloudFlare, Inc.		100% 642/645
188.114.97.0/24	✓	CloudFlare, Inc.		100% 642/645
188.114.98.0/24	✓	CloudFlare, Inc.		100% 642/645
188.114.99.0/24	✓	CloudFlare, Inc.		100% 642/645
188.114.100.0/24	✓	CloudFlare, Inc.		100% 643/645
188.114.102.0/24	✓	CloudFlare, Inc.		100% 643/645
188.114.103.0/24	✓	CloudFlare, Inc.		100% 643/645
188.114.106.0/23	✓	Cloudflare Inc		100% 643/645
188.114.108.0/24	✓	CloudFlare, Inc.		100% 643/645

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162.158.82.0/24

November 5, 2024

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162.158.83.0/24162.158.84.0/22

Cloudflare, Inc.



100% 643/645

162.158.84.0/24

Cloudflare, Inc.



73% 469/645

162.158.89.0/24

Cloudflare, Inc.



99% 640/645

162.158.90.0/24

Cloudflare, Inc.



99% 640/645

162.158.91.0/24

Cloudflare, Inc.



99% 640/645

162.158.93.0/24

Cloudflare, Inc.



100% 643/645

162.158.94.0/24

Cloudflare, Inc.



100% 643/645

162.158.95.0/24

Cloudflare, Inc.



100% 643/645

162.158.96.0/24

Cloudflare, Inc.



100% 645/645

162.158.97.0/24

Cloudflare, Inc.



100% 645/645

162.158.98.0/24

Cloudflare, Inc.



100% 645/645

162.158.99.0/24

Cloudflare, Inc.



100% 645/645

162.158.100.0/24

Cloudflare, Inc.



100% 643/645

162.158.101.0/24

Cloudflare, Inc.



100% 643/645

162.158.102.0/24

Cloudflare, Inc.



100% 643/645

162.158.103.0/24

Cloudflare, Inc.



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162.158.104.0/24

Cloudflare, Inc.



100% 645/645

162.158.105.0/24

Cloudflare, Inc.



100% 645/645

162.158.106.0/24

Cloudflare, Inc.



100% 645/645

162.158.107.0/24

Cloudflare, Inc.



100% 645/645

162.158.109.0/24

Cloudflare, Inc.



100% 643/645

162.158.110.0/24

Cloudflare, Inc.



100% 643/645

162.158.111.0/24

Cloudflare, Inc.



100% 643/645

162.158.112.0/24

Cloudflare, Inc.



100% 643/645

162.158.113.0/24

Cloudflare, Inc.



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162.158.114.0/24

Cloudflare, Inc.



100% 645/645

162.158.115.0/24

Cloudflare, Inc.



100% 645/645

162.158.116.0/24

100% 645/645

162.158.117.0/24

Cloudflare, Inc.



100% 643/645

162.158.118.0/24

Cloudflare, Inc.



100% 645/645

162.158.119.0/24

Cloudflare, Inc.



100% 645/645

162.158.120.0/24

Cloudflare, Inc.



100% 643/645

162.158.121.0/24

Cloudflare, Inc.



100% 643/645

162.158.122.0/24

Cloudflare, Inc.



100% 643/645

162.158.123.0/24

Cloudflare, Inc.



100% 643/645

162.158.124.0/22

Cloudflare, Inc.



99% 640/645

162.158.128.0/21

Cloudflare, Inc.



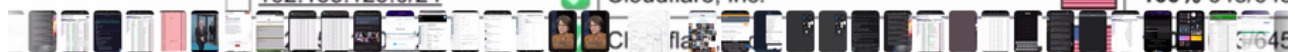
100% 645/645

162.158.129.0/24

Cloudflare, Inc.



100% 643/645



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November 5, 2024
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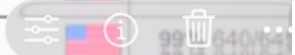
162.158.172.0/24	✓	Cloudflare, Inc.		100% 643/645
162.158.173.0/24	✓	Cloudflare, Inc.		99% 640/645
162.158.174.0/24	✓	Cloudflare, Inc.		99% 640/645
162.158.175.0/24	✓	Cloudflare, Inc.		99% 640/645
162.158.176.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.177.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.178.0/24	✓	Cloudflare, Inc.		100% 644/645
162.158.179.0/24	✓	Cloudflare, Inc.		100% 644/645
162.158.180.0/22	✓	Cloudflare, Inc.		100% 642/645
162.158.185.0/24	✓	Cloudflare, Inc.		99% 640/645
162.158.186.0/24	✓	Cloudflare, Inc.		99% 640/645
162.158.187.0/24	✓	Cloudflare, Inc.		99% 640/645
162.158.188.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.189.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.190.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.191.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.192.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.194.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.195.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.196.0/24	✓	Cloudflare, Inc.		100% 643/645
162.158.197.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.198.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.199.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.200.0/22	✓	Cloudflare, Inc.		100% 645/645
162.158.204.0/24	✓	Cloudflare, Inc.		100% 644/645
162.158.205.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.206.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.208.0/22	✓	Cloudflare, Inc.		100% 645/645
162.158.212.0/24	✓	Cloudflare, Inc.		100% 643/645
162.158.214.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.215.0/24	✓	Cloudflare, Inc.		100% 645/645
162.158.220.0/24	✓			100% 642/645
162.158.221.0/24	✓			100% 642/645
162.158.222.0/24	✓			100% 642/645
162.158.223.0/24	✓			100% 642/645
162.158.224.0/24	✓	Cloudflare, Inc.		100% 645/645

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November 5, 2024

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162.158.158.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.159.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.160.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.161.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.162.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.163.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.164.0/24	✓	Cloudflare, Inc.	100% 642/645
162.158.165.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.166.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.167.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.168.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.169.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.170.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.171.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.172.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.173.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.174.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.175.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.176.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.177.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.178.0/24	✓	Cloudflare, Inc.	100% 644/645
162.158.179.0/24	✓	Cloudflare, Inc.	100% 644/645
162.158.180.0/22	✓	Cloudflare, Inc.	100% 642/645
162.158.185.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.186.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.187.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.188.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.189.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.190.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.191.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.192.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.194.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.195.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.196.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.197.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.198.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.199.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.200.0/22	✓	Cloudflare, Inc.	100% 645/645
162.158.204.0/24	✓	Cloudflare, Inc.	100% 644/645
162.158.205.0/24	✓	Cloudflare, Inc.	100% 645/645



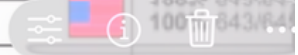
10:08 PM Fri Oct 31 5					November 5, 2024 10:08 PM					VPN 100% 4092%				
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172.71.158.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645										
172.71.159.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645										
172.71.160.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.161.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.162.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.163.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.164.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645										
172.71.165.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.166.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.167.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.168.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645										
172.71.169.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.170.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.171.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.172.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645										
172.71.173.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.174.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.175.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.176.0/24	✓		🇺🇸	100% 645/645										
172.71.180.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.181.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.182.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645										
172.71.183.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645										
172.71.184.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645										
172.71.185.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.186.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.187.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.189.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.190.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.191.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.192.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.193.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.194.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.195.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645										
172.71.196.0/24	✓		🇺🇸	100% 645/645										
172.71.197.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										
172.71.198.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645										

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172.71.194.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.71.195.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.71.196.0/24	✓		🇺🇸	100%	645/645
172.71.197.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.198.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.199.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.201.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.202.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.203.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.204.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.208.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	643/645
172.71.209.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.210.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.211.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.212.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	643/645
172.71.213.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.214.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	644/645
172.71.215.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	644/645
172.71.216.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	643/645
172.71.217.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.218.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	644/645
172.71.219.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.221.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.71.222.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.71.223.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.71.224.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.225.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.226.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.227.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.228.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.229.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.230.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.231.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.71.233.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	643/645
172.71.234.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.71.235.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.71.237.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	643/645
172.71.238.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645



November 5, 2024

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162.158.122.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.123.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.124.0/22	✓	Cloudflare, Inc.	99% 640/645
162.158.128.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.129.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.130.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.131.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.132.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.133.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.134.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.135.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.136.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.137.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.138.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.139.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.140.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.141.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.142.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.143.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.144.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.145.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.146.0/24	✓	Cloudflare, Inc.	100% 643/645
162.158.147.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.148.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.149.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.150.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.151.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.152.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.153.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.154.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.155.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.156.0/24	✓		100% 645/645
162.158.157.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.158.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.159.0/24	✓	Cloudflare, Inc.	99% 640/645
162.158.160.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.161.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.162.0/24	✓	Cloudflare, Inc.	100% 645/645
162.158.163.0/24	✓	Cloudflare, Inc.	100% 645/645



172.71.92.0/24	✓			100% 645/645
172.71.93.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.94.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.95.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.96.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.97.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.98.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.99.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.100.0/24	✓	Cloudflare, Inc.		99% 640/645
172.71.101.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.102.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.103.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.108.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.109.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.110.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.111.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.112.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.113.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.114.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.115.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.116.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.117.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.118.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.119.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.120.0/24	✓	Cloudflare, Inc.		99% 640/645
172.71.121.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.122.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.123.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.124.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.125.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.126.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.127.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.129.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.130.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.131.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.132.0/24	✓	Cloudflare, Inc.		100% 645/645

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172.71.126.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.127.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.129.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.130.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.131.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.132.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.133.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.134.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.135.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.137.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.138.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.139.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.140.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.141.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.71.142.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.71.143.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.71.144.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.145.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.71.146.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.71.147.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.71.148.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.149.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.71.150.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.71.151.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.71.152.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.153.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.154.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.155.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.156.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.157.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.158.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.159.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.71.160.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.71.161.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.162.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.71.163.0/24	✓	Cloudflare, Inc.		100% 645/645										

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172.70.235.0/24	✓	Cloudflare, Inc.		100%	645/645
172.70.236.0/24	✓	Cloudflare, Inc.		100%	644/645
172.70.237.0/24	✓	Cloudflare, Inc.		100%	645/645
172.70.238.0/24	✓	Cloudflare, Inc.		100%	645/645
172.70.239.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.240.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.241.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.242.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.243.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.244.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.245.0/24	✓	Cloudflare, Inc.		100%	645/645
172.70.246.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.247.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.248.0/24	✓			100%	643/645
172.70.249.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.250.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.251.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.252.0/24	✓	Cloudflare, Inc.		99%	640/645
172.70.253.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.254.0/24	✓	Cloudflare, Inc.		100%	643/645
172.70.255.0/24	✓	Cloudflare, Inc.		100%	643/645
172.71.0.0/24	✓			100%	645/645
172.71.1.0/24	✓	Cloudflare, Inc.		100%	645/645
172.71.2.0/24	✓	Cloudflare, Inc.		100%	645/645
172.71.3.0/24	✓	Cloudflare, Inc.		100%	645/645
172.71.4.0/24	✓	Cloudflare, Inc.		100%	643/645
172.71.5.0/24	✓	Cloudflare, Inc.		99%	640/645
172.71.6.0/24	✓	Cloudflare, Inc.		100%	643/645
172.71.7.0/24	✓	Cloudflare, Inc.		99%	640/645
172.71.8.0/24	✓			100%	643/645
172.71.9.0/24	✓	Cloudflare, Inc.		100%	643/645
172.71.10.0/24	✓	Cloudflare, Inc.		100%	643/645
172.71.11.0/24	✓	Cloudflare, Inc.		100%	643/645
172.71.12.0/24	✓	Cloudflare, Inc.		100%	645/645
172.71.13.0/24	✓	Cloudflare, Inc.		100%	645/645
172.71.14.0/24	✓	Cloudflare, Inc.		100%	645/645
172.71.15.0/24	✓	Cloudflare, Inc.		100%	645/645
172.71.16.0/24	✓	Cloudflare, Inc.		100%	645/645
172.71.17.0/24	✓	Cloudflare, Inc.		100%	645/645
172.71.18.0/24	✓	Cloudflare, Inc.		100%	645/645

10:12 PM Fri Oct 15

November 5, 2024
10:08 PM

VPN 100% 4092%

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bgp.he.net

172.71.10.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.11.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.12.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.13.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.14.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.17.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.20.0/24	✓			100% 643/645
172.71.21.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.22.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.23.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.24.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.25.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.26.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.27.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.28.0/24	✓			100% 643/645
172.71.29.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.30.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.31.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.81.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.82.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.83.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.84.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.86.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.87.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.88.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.89.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.90.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.92.0/24	✓			100% 645/645
172.71.93.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.94.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.95.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.96.0/24	✓	Cloudflare, Inc.		100% 645/645
172.71.97.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.98.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.99.0/24	✓	Cloudflare, Inc.		100% 643/645
172.71.100.0/24	✓	Cloudflare, Inc.		99% 640/645

172.70.82.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.83.0/24	✓	Cloudflare, Inc.		100% 643/645
172.70.84.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.85.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.86.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.88.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.89.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.90.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.91.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.92.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.93.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.100.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.101.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.103.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.104.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.106.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.107.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.108.0/24	✓			100% 645/645
172.70.109.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.110.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.111.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.112.0/24	✓	Cloudflare, Inc.		100% 643/645
172.70.113.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.114.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.115.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.116.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.117.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.120.0/24	✓	Cloudflare, Inc.		100% 643/645
172.70.121.0/24	✓	Cloudflare, Inc.		100% 643/645
172.70.122.0/24	✓	Cloudflare, Inc.		100% 643/645
172.70.123.0/24	✓	Cloudflare, Inc.		100% 643/645
172.70.124.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.125.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.126.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.127.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.128.0/24	✓	Cloudflare, Inc.		100% 645/645
172.70.129.0/24	✓	Cloudflare, Inc.		100% 643/645

11:33 PM Fri Oct 31 5				
November 5, 2024 10:08 PM				
bgp.he.net				
172.69.223.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.224.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.225.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.226.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.227.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.228.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.229.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.231.0/24	✓	Cloudflare, Inc.		100% 644/645
172.69.232.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.233.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.234.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.235.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.236.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.237.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.238.0/24	✓	Cloudflare, Inc.		100% 644/645
172.69.239.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.240.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.241.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.242.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.243.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.244.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.245.0/24	✓	Cloudflare, Inc.		100% 643/645
172.69.246.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.247.0/24	✓	Cloudflare, Inc.		100% 643/645
172.69.248.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.250.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.251.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.252.0/24	✓			100% 643/645
172.69.253.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.254.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.255.0/24	✓			100% 645/645
172.70.33.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.34.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.35.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.37.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.38.0/24	✓	Cloudflare, Inc.		99% 640/645

1:33 PM Fri Oct 31 5					
November 5, 2024 10:08 PM					
bgp.he.net					
172.69.189.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.190.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	644/645
172.69.191.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	642/645
172.69.192.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.193.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.194.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.195.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.196.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.197.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.198.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	644/645
172.69.199.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.200.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.201.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.202.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.203.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.204.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.205.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.206.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	643/645
172.69.207.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.69.208.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.210.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.211.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.212.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	643/645
172.69.213.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.214.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.69.215.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.69.216.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.69.217.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.218.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.219.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.220.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.221.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.69.222.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.223.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.224.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.225.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.226.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.227.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645

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November 5, 2024 10:08 PM

VPN 100% 92%

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172.69.156.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645
172.69.157.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.160.0/24	✓		🇺🇸	100% 645/645
172.69.161.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.162.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
172.69.163.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.164.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.165.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.166.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.167.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.168.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645
172.69.169.0/24	✓	Cloudflare, Inc.	🇺🇸	99% 640/645
172.69.170.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.171.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.172.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.173.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.174.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.175.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.177.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.178.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.179.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.180.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.181.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.182.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 643/645
172.69.183.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.184.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.185.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.186.0/24	✓		🇺🇸	100% 645/645
172.69.187.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.188.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.189.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.190.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 644/645
172.69.191.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 642/645
172.69.192.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.193.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645
172.69.194.0/24	✓	Cloudflare, Inc.	🇺🇸	100% 645/645

10:15 PM Fri Nov 5

10:08 PM

November 5, 2024

Che 107. WH ST L

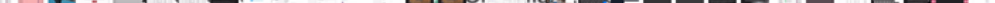
VPN 100% 4092%

bgp.he.net

172.70.82.0/24	✓	Cloudflare, Inc.	100% 643/645
172.70.83.0/24	✓	Cloudflare, Inc.	100% 643/645
172.70.84.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.85.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.86.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.88.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.89.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.90.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.91.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.92.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.93.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.100.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.101.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.103.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.104.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.106.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.107.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.108.0/24	✓		100% 645/645
172.70.109.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.110.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.111.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.112.0/24	✓	Cloudflare, Inc.	100% 643/645
172.70.113.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.114.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.115.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.116.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.117.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.120.0/24	✓	Cloudflare, Inc.	100% 643/645
172.70.121.0/24	✓	Cloudflare, Inc.	100% 643/645
172.70.122.0/24	✓	Cloudflare, Inc.	100% 643/645
172.70.123.0/24	✓	Cloudflare, Inc.	100% 643/645
172.70.124.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.125.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.126.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.127.0/24	✓	Cloudflare, Inc.	99% 640/645
172.70.128.0/24	✓	Cloudflare, Inc.	100% 645/645
172.70.129.0/24	✓	Cloudflare, Inc.	100% 643/645

19:32 PM Fri Oct 31 5				
November 5, 2024 10:08 PM				
bgp.he.net				
172.69.235.0/24	✓		100% 643/645	
172.70.33.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.34.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.35.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.37.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.38.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.39.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.41.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.42.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.43.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.44.0/24	✓		100% 643/645	
172.70.45.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.46.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.47.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.48.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.49.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.50.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.51.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.52.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.53.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.54.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.55.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.56.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.57.0/24	✓	Cloudflare, Inc.	99% 641/645	
172.70.58.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.59.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.61.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.62.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.70.63.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.70.80.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.70.81.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.82.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.83.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.70.84.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.70.85.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.70.86.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.70.88.0/24	✓	Cloudflare, Inc.	100% 645/645	

172.70.125.0/24	✔	Cloudflare, Inc.		99% 640/645
172.70.126.0/24	✔	Cloudflare, Inc.		99% 640/645
172.70.127.0/24	✔	Cloudflare, Inc.		99% 640/645
172.70.128.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.129.0/24	✔	Cloudflare, Inc.		100% 643/645
172.70.130.0/24	✔	Cloudflare, Inc.		99% 640/645
172.70.131.0/24	✔	Cloudflare, Inc.		99% 640/645
172.70.133.0/24	✔	Cloudflare, Inc.		99% 640/645
172.70.134.0/24	✔	Cloudflare, Inc.		99% 640/645
172.70.135.0/24	✔	Cloudflare, Inc.		99% 640/645
172.70.136.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.138.0/24	✔			100% 645/645
172.70.139.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.140.0/24	✔			100% 645/645
172.70.141.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.142.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.143.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.144.0/24	✔			100% 645/645
172.70.145.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.146.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.147.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.148.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.149.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.150.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.152.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.153.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.154.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.155.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.156.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.157.0/24	✔			100% 645/645
172.70.158.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.159.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.160.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.161.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.162.0/24	✔	Cloudflare, Inc.		100% 645/645
172.70.163.0/24	✔	Cloudflare, Inc.		100% 645/645



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172.69.223.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.224.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.225.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.226.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.227.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.228.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.229.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.231.0/24	✓	Cloudflare, Inc.		100% 644/645
172.69.232.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.233.0/24	✓	Cloudflare, Inc.		100% 645/645
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172.69.239.0/24	✓	Cloudflare, Inc.		100% 645/645
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172.69.241.0/24	✓	Cloudflare, Inc.		100% 645/645
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172.69.244.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.245.0/24	✓	Cloudflare, Inc.		100% 643/645
172.69.246.0/24	✓	Cloudflare, Inc.		100% 645/645
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172.69.248.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.250.0/24	✓	Cloudflare, Inc.		100% 645/645
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172.69.252.0/24	✓			100% 643/645
172.69.253.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.254.0/24	✓	Cloudflare, Inc.		100% 645/645
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172.70.33.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.34.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.35.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.37.0/24	✓	Cloudflare, Inc.		99% 640/645
172.70.38.0/24	✓	Cloudflare, Inc.		99% 640/645

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172.69.189.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.190.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	644/645
172.69.191.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	642/645
172.69.192.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.193.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.194.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.195.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.196.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.197.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.198.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	644/645
172.69.199.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.200.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.201.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.202.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.203.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.204.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.205.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.206.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	643/645
172.69.207.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
172.69.208.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.210.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.211.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.212.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	643/645
172.69.213.0/24	✓	Cloudflare, Inc.	🇺🇸	100%	645/645
172.69.214.0/24	✓	Cloudflare, Inc.	🇺🇸	99%	640/645
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172.69.57.0/24	✓	Cloudflare, Inc.		100% 643/645										
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172.68.251.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.252.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.253.0/24	✓	Cloudflare, Inc.	0% 2/645
172.68.255.0/24	✓	Cloudflare, Inc.	100% 645/645
172.69.0.0/24	✓	Cloudflare, Inc.	100% 644/645
172.69.1.0/24	✓	Cloudflare, Inc.	99% 640/645
172.69.2.0/24	✓	Cloudflare, Inc.	100% 645/645
172.69.3.0/24	✓	Cloudflare, Inc.	100% 645/645
172.69.4.0/24	✓	Cloudflare, Inc.	100% 645/645
172.69.5.0/24	✓	Cloudflare, Inc.	100% 645/645
172.69.6.0/24	✓	Cloudflare, Inc.	99% 640/645
172.69.7.0/24	✓	Cloudflare, Inc.	99% 640/645
172.69.8.0/24	✓	Cloudflare, Inc.	100% 643/645
172.69.10.0/24	✓	Cloudflare, Inc.	100% 643/645
172.69.11.0/24	✓	Cloudflare, Inc.	99% 640/645
172.69.12.0/24	✓	Cloudflare, Inc.	100% 645/645
172.69.13.0/24	✓	Cloudflare, Inc.	100% 645/645
172.69.14.0/24	✓	Cloudflare, Inc.	100% 645/645

1:33 PM Front 915			
November 5, 2024 10:08 PM			
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172.68.198.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.199.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.200.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.201.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.202.0/24	✓		100% 643/645
172.68.203.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.204.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.205.0/24	✓	Cloudflare, Inc.	100% 643/645
172.68.206.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.207.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.208.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.209.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.210.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.212.0/24	✓	Cloudflare, Inc.	100% 643/645
172.68.213.0/24	✓	Cloudflare, Inc.	100% 643/645
172.68.214.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.215.0/24	✓	Cloudflare, Inc.	100% 643/645
172.68.216.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.217.0/24	✓		100% 645/645
172.68.218.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.219.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.220.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.221.0/24	✓	Cloudflare, Inc.	100% 644/645
172.68.222.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.223.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.224.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.225.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.228.0/23	✓	Cloudflare, Inc.	0% 1/645
172.68.230.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.231.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.232.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.233.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.234.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.235.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.236.0/24	✓	Cloudflare, Inc.	100% 645/645
172.68.237.0/24	✓	Cloudflare, Inc.	100% 645/645

11:33 PM Fri Oct 31 5				
November 5, 2024 10:08 PM				
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172.69.90.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.91.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.92.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.93.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.94.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.95.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.96.0/24	✓	Cloudflare, Inc.		99% 640/645
172.69.97.0/24	✓	Cloudflare, Inc.		99% 640/645
172.69.98.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.99.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.100.0/24	✓	Cloudflare, Inc.		100% 643/645
172.69.101.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.102.0/24	✓			100% 645/645
172.69.103.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.104.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.105.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.106.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.107.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.108.0/24	✓	Cloudflare, Inc.		100% 644/645
172.69.109.0/24	✓	Cloudflare, Inc.		100% 643/645
172.69.110.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.111.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.112.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.113.0/24	✓	Cloudflare, Inc.		100% 643/645
172.69.114.0/24	✓	Cloudflare, Inc.		99% 640/645
172.69.115.0/24	✓			100% 645/645
172.69.116.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.118.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.119.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.120.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.121.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.122.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.123.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.124.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.125.0/24	✓	Cloudflare, Inc.		100% 645/645
172.69.126.0/24	✓	Cloudflare, Inc.		100% 645/645

172.69.11.0/24		Cloudflare, Inc.		99% 640/645
172.69.12.0/24		Cloudflare, Inc.		100% 645/645
172.69.13.0/24		Cloudflare, Inc.		100% 645/645
172.69.14.0/24		Cloudflare, Inc.		100% 645/645
172.69.15.0/24		Cloudflare, Inc.		100% 645/645
172.69.16.0/24		Cloudflare, Inc.		100% 645/645
172.69.18.0/24		Cloudflare, Inc.		100% 645/645
172.69.19.0/24		Cloudflare, Inc.		99% 640/645
172.69.20.0/24		Cloudflare, Inc.		100% 645/645
172.69.21.0/24		Cloudflare, Inc.		100% 643/645
172.69.22.0/24		Cloudflare, Inc.		100% 643/645
172.69.23.0/24		Cloudflare, Inc.		100% 643/645
172.69.32.0/24		Cloudflare, Inc.		99% 640/645
172.69.33.0/24		Cloudflare, Inc.		99% 640/645
172.69.34.0/24		Cloudflare, Inc.		99% 640/645
172.69.35.0/24		Cloudflare, Inc.		100% 645/645
172.69.36.0/24		Cloudflare, Inc.		100% 645/645
172.69.37.0/24		Cloudflare, Inc.		100% 645/645
172.69.38.0/23		Cloudflare, Inc.		100% 645/645
172.69.40.0/24		Cloudflare, Inc.		100% 645/645
172.69.41.0/24		Cloudflare, Inc.		100% 645/645
172.69.42.0/24		Cloudflare, Inc.		100% 645/645
172.69.43.0/24		Cloudflare, Inc.		100% 645/645
172.69.45.0/24		Cloudflare, Inc.		100% 642/645
172.69.46.0/24		Cloudflare, Inc.		100% 645/645
172.69.47.0/24		Cloudflare, Inc.		100% 645/645
172.69.48.0/24		Cloudflare, Inc.		100% 645/645
172.69.49.0/24		Cloudflare, Inc.		100% 643/645
172.69.50.0/24		Cloudflare, Inc.		100% 645/645
172.69.52.0/24		Cloudflare, Inc.		100% 645/645
172.69.53.0/24		Cloudflare, Inc.		100% 645/645
172.69.54.0/24		Cloudflare, Inc.		100% 645/645
172.69.55.0/24		Cloudflare, Inc.		100% 645/645
172.69.56.0/24		Cloudflare, Inc.		100% 645/645
172.69.57.0/24		Cloudflare, Inc.		100% 643/645
172.69.58.0/24		Cloudflare, Inc.		99% 640/645

11:33 PM Friday, October 31, 2025					November 5, 2024 10:08 PM					VPN 91%				
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bgp.he.net														
172.68.156.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.68.157.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.159.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.160.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.162.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.163.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.165.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.166.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.167.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.168.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.170.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.171.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.172.0/22	✓	Cloudflare, Inc.		100% 643/645										
172.68.176.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.177.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.68.179.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.180.0/22	✓	Cloudflare, Inc.		100% 642/645										
172.68.184.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.185.0/24	✓	Cloudflare, Inc.		100% 644/645										
172.68.186.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.187.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.188.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.189.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.190.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.191.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.68.192.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.193.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.194.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.195.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.196.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.197.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.198.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.199.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.200.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.201.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.202.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.203.0/24	✓	Cloudflare, Inc.		100% 645/645										

19:38 PM Fri Oct 31 5					
November 5, 2024 10:08 PM					
bgp.he.net					
172.68.123.0/24	✓	Cloudflare, Inc.		99%	640/645
172.68.124.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.125.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.126.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.127.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.128.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.129.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.130.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.131.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.132.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.133.0/24	✓	Cloudflare, Inc.		100%	643/645
172.68.134.0/24	✓	Cloudflare, Inc.		100%	643/645
172.68.135.0/24	✓	Cloudflare, Inc.		100%	643/645
172.68.138.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.139.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.140.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.141.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.142.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.143.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.144.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.145.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.146.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.147.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.148.0/24	✓	Cloudflare, Inc.		99%	640/645
172.68.149.0/24	✓	Cloudflare, Inc.		99%	640/645
172.68.150.0/24	✓	Cloudflare, Inc.		99%	640/645
172.68.152.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.153.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.154.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.155.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.156.0/24	✓	Cloudflare, Inc.		100%	642/645
172.68.157.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.159.0/24	✓	Cloudflare, Inc.		100%	643/645
172.68.160.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.162.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.163.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.165.0/24	✓	Cloudflare, Inc.		100%	645/645
172.68.166.0/24	✓	Cloudflare, Inc.		100%	645/645

1:33 PM Front 915				
November 5, 2024 10:08 PM				
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172.68.81.0/24	✓		100% 645/645	
172.68.82.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.83.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.84.0/24	✓	Cloudflare, Inc.	100% 642/645	
172.68.85.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.68.86.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.87.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.68.88.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.89.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.90.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.91.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.92.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.68.93.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.94.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.95.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.96.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.97.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.98.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.99.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.100.0/22	✓	Cloudflare, Inc.	99% 640/645	
172.68.104.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.68.105.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.106.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.107.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.108.0/22	✓	Cloudflare, Inc.	100% 643/645	
172.68.112.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.113.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.114.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.117.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.68.118.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.68.119.0/24	✓	Cloudflare, Inc.	100% 643/645	
172.68.121.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.123.0/24	✓	Cloudflare, Inc.	99% 640/645	
172.68.124.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.125.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.126.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.127.0/24	✓	Cloudflare, Inc.	100% 645/645	
172.68.128.0/24	✓	Cloudflare, Inc.	100% 645/645	

1:33 PM Front 915					November 5, 2024 10:08 PM					VPN 91%				
Che 107.					WH					ST L				
bgp.he.net														
172.68.4.0/24	✓	Cloudflare, Inc.		99% 638/645										
172.68.5.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.6.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.8.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.9.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.10.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.11.0/24	✓			99% 641/645										
172.68.13.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.14.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.15.0/24	✓	Cloudflare, Inc.		99% 639/645										
172.68.16.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.17.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.18.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.19.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.20.0/24	✓			100% 643/645										
172.68.21.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.68.22.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.68.23.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.68.24.0/24	✓			100% 642/645										
172.68.25.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.26.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.27.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.28.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.29.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.68.30.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.31.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.32.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.33.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.34.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.35.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.36.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.37.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.38.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.39.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.40.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.41.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.42.0/24	✓	Cloudflare, Inc.		100% 643/645										
172.68.43.0/24	✓	Cloudflare, Inc.		100% 643/645										

19:33 PM Fri Oct 31 5			
November 5, 2024 10:08 PM			
bgp.he.net			
172.64.178.0/24	✓		42% 272/645
172.64.192.0/20	✓	Cloudflare, Inc.	100% 645/645
172.64.228.0/24	✓	Cloudflare, Inc.	100% 642/645
172.64.229.0/24	✓	Cloudflare, Inc.	100% 642/645
172.64.230.0/24	✓	Cloudflare, Inc.	1% 4/645
172.64.231.0/24	✓	Cloudflare, Inc.	100% 643/645
172.64.232.0/24	✓	Cloudflare, Inc.	100% 645/645
172.64.233.0/24	✓	Cloudflare, Inc.	100% 645/645
172.64.234.0/24	✓	Cloudflare, Inc.	100% 645/645
172.64.235.0/24	✓	Cloudflare, Inc.	100% 642/645
172.64.236.0/24	✓	Cloudflare, Inc.	100% 643/645
172.64.237.0/24	✓	Cloudflare, Inc.	100% 643/645
172.64.238.0/24	✓	Cloudflare, Inc.	100% 643/645
172.64.239.0/24	✓	Cloudflare, Inc.	100% 643/645
172.64.240.0/20	✓	Cloudflare, Inc.	100% 643/645
172.65.0.0/19	✓	Cloudflare, Inc.	100% 642/645
172.65.0.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.16.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.32.0/19	✓	Cloudflare, Inc.	100% 642/645
172.65.32.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.48.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.64.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.80.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.96.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.112.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.128.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.144.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.160.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.176.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.192.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.208.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.224.0/20	✓	Cloudflare, Inc.	100% 642/645
172.65.240.0/20	✓	Cloudflare, Inc.	100% 642/645
172.66.0.0/22	✓	Cloudflare, Inc.	100% 643/645
172.66.31.0/24	✓		100% 642/645
172.66.40.0/21	✓	Cloudflare, Inc.	100% 642/645
172.66.128.0/20	✓	Cloudflare, Inc.	100% 642/645

November 5, 2024
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162.159.6.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.7.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.8.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.9.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.10.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.11.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.12.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.13.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.14.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.15.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.16.0/20	✓	Cloudflare, Inc.		100% 642/645
162.159.16.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.17.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.18.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.19.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.20.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.21.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.22.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.23.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.24.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.25.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.26.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.27.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.32.0/20	✓	Cloudflare, Inc.		100% 642/645
162.159.32.0/23	✓	Cloudflare, Inc.		100% 642/645
162.159.34.0/23	✓	Cloudflare, Inc.		100% 642/645
162.159.36.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.40.0/23	✓	Cloudflare, Inc.		100% 642/645
162.159.42.0/23	✓	Cloudflare, Inc.		100% 642/645
162.159.46.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.48.0/20	✓	Cloudflare, Inc.		100% 642/645
162.159.58.0/24	✓	Cloudflare, Inc.		100% 642/645
162.159.60.0/24	✓	Cloudflare, Inc.		100% 644/645
162.159.64.0/20	✓	Cloudflare, Inc.		100% 643/645
162.159.80.0/24	✓	Cloudflare, Inc.		100% 645/645
162.159.81.0/24	✓	Cloudflare, Inc.		100% 645/645
162.159.82.0/24	✓	Cloudflare, Inc.		100% 645/645

1:33 PM Front 915				
November 5, 2024 10:08 PM				
bgp.he.net				
172.64.34.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.35.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.36.0/23	✓	Cloudflare, Inc.		100% 642/645
172.64.38.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.40.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.48.0/20	✓	Cloudflare, Inc.		100% 642/645
172.64.52.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.53.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.64.0/20	✓	Cloudflare, Inc.		22% 139/645
172.64.68.0/24	✓	Cloudflare, Inc.		100% 643/645
172.64.69.0/24	✓	Cloudflare, Inc.		100% 643/645
172.64.76.0/24	✓	Cloudflare, Inc.		100% 645/645
172.64.78.0/24	✓	Cloudflare, Inc.		100% 643/645
172.64.80.0/20	✓	Cloudflare, Inc.		100% 643/645
172.64.96.0/20	✓	Cloudflare, Inc.		100% 645/645
172.64.128.0/20	✓	Cloudflare, Inc.		100% 645/645
172.64.144.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.145.0/24	✓	Cloudflare, Inc.		100% 644/645
172.64.146.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.147.0/24	✓	Cloudflare, Inc.		100% 644/645
172.64.148.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.149.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.150.0/24	✓	Cloudflare, Inc.		100% 644/645
172.64.151.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.152.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.153.0/24	✓	Cloudflare, Inc.		100% 644/645
172.64.154.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.155.0/24	✓	Cloudflare, Inc.		100% 644/645
172.64.156.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.157.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.158.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.159.0/24	✓	Cloudflare, Inc.		100% 642/645
172.64.160.0/20	✓	Cloudflare, Inc.		100% 645/645
172.64.178.0/24	✓			42% 272/645
172.64.192.0/20	✓	Cloudflare, Inc.		100% 645/645
172.64.228.0/24	✓	Cloudflare, Inc.		100% 642/645

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bgp.he.net														
172.66.0.0/22	✓	Cloudflare, Inc.		100% 643/645										
172.66.31.0/24	✓			100% 642/645										
172.66.40.0/21	✓	Cloudflare, Inc.		100% 642/645										
172.66.128.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.66.144.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.66.160.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.66.176.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.66.177.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.66.192.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.66.208.0/21	✓	Cloudflare, Inc.		100% 642/645										
172.66.216.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.66.217.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.67.0.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.16.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.32.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.48.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.64.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.80.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.96.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.112.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.128.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.144.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.160.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.176.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.192.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.208.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.224.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.67.240.0/20	✓	Cloudflare, Inc.		100% 642/645										
172.68.0.0/24	✓	Cloudflare, Inc.		100% 642/645										
172.68.1.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.2.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.3.0/24	✓	Cloudflare, Inc.		99% 640/645										
172.68.4.0/24	✓	Cloudflare, Inc.		99% 638/645										
172.68.5.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.6.0/24	✓	Cloudflare, Inc.		100% 645/645										
172.68.8.0/24	✓	Cloudflare, Inc.		100% 643/645										

AS13335 Cloudflare, Inc.

Quick Links

AS Info

Graph v4

Graph v6

Prefixes v4

Prefixes v6

Peers v4

Peers v6

Whois

RDAP

IRR

IX

Traceroute

- GP Toolkit Home
- GP Prefix Report
- GP Peer Report
- uper Traceroute
- uper Looking Glass
- xchange Report
- ogon Routes
- /orld Report
- ulti Origin Routes
- NS Report
- op Host Report
- internet Statistics
- ooking Glass
- etwork Tools App
- ree IPv6 Tunnel
- IPv6 Certification
- IPv6 Progress
- ioing Native
- redits
- ontact Us

Company Website: <https://www.cloudflare.com>

Country of Origin: [United States](#)

Internet Exchanges: 333

Prefixes Originated (all): 3,988
Prefixes Originated (v4): 2,037
Prefixes Originated (v6): 1,951

Prefixes Announced (all): 7,177
Prefixes Announced (v4): 5,226
Prefixes Announced (v6): 1,951

RPKI Originated Valid (all): 3,792
RPKI Originated Valid (v4): 1,848
RPKI Originated Valid (v6): 1,944

RPKI Originated Invalid (all): 5
RPKI Originated Invalid (v4): 2
RPKI Originated Invalid (v6): 3

BGP Peers Observed (all): 1,567
BGP Peers Observed (v4): 1,502
BGP Peers Observed (v6): 721

IPs Originated (v4): 1,720,832
AS Paths Observed (v4): 134,141
AS Paths Observed (v6): 115,415

Average AS Path Length (all): 4.907
Average AS Path Length (v4): 4.937
Average AS Path Length (v6): 4.873



AS13335 IPv4 Peers

GP Peer Report			
uper Traceroute			
uper Looking Glass			
xchange Report			
ogon Routes			
'orld Report			
ulti Origin Routes			
NS Report			
p Host Report			
ternet Statistics			
oking Glass			
etwork Tools App			
ree IPv6 Tunnel			
'v6 Certification			
'v6 Progress			
oing Native			
redits			
ontact Us			
Prefix	Description		Visibility
162.158.225.0/24		Cloudflare, Inc.	100% 645/645
162.158.226.0/23		Cloudflare, Inc.	100% 645/645
162.158.226.0/24		Cloudflare, Inc.	100% 645/645
162.158.227.0/24		Cloudflare, Inc.	100% 645/645
162.158.229.0/24		Cloudflare, Inc.	100% 645/645
162.158.230.0/24		Cloudflare, Inc.	100% 643/645
162.158.231.0/24		Cloudflare, Inc.	100% 645/645
162.158.232.0/23		Cloudflare, Inc.	100% 645/645
162.158.234.0/23		Cloudflare, Inc.	100% 645/645
162.158.234.0/24		Cloudflare, Inc.	4% 23/645
162.158.235.0/24		Cloudflare, Inc.	4% 23/645
162.158.236.0/22		Cloudflare, Inc.	100% 645/645
162.158.240.0/22		Cloudflare, Inc.	99% 640/645
162.158.244.0/24		Cloudflare, Inc.	100% 645/645
162.158.245.0/24		Cloudflare, Inc.	100% 643/645
162.158.247.0/24		Cloudflare, Inc.	100% 643/645
162.158.248.0/24		Cloudflare, Inc.	100% 645/645
162.158.249.0/24		Cloudflare, Inc.	100% 645/645
162.158.250.0/23		Cloudflare, Inc.	100% 645/645
162.158.252.0/24		Cloudflare, Inc.	100% 645/645
162.158.253.0/24		Cloudflare, Inc.	100% 643/645
162.158.254.0/24		Cloudflare, Inc.	100% 645/645
162.158.255.0/24		Cloudflare, Inc.	100% 645/645
162.159.0.0/20		Cloudflare, Inc.	100% 642/645
162.159.0.0/24		Cloudflare, Inc.	100% 642/645
162.159.1.0/24		Cloudflare, Inc.	100% 642/645
162.159.2.0/24		Cloudflare, Inc.	100% 642/645
162.159.3.0/24		Cloudflare, Inc.	100% 642/645
162.159.4.0/24		Cloudflare, Inc.	100% 642/645
162.159.5.0/24		Cloudflare, Inc.	100% 642/645
162.159.6.0/24		Cloudflare, Inc.	100% 642/645
162.159.7.0/24		Cloudflare, Inc.	100% 642/645
162.159.8.0/24		Cloudflare, Inc.	100% 642/645
162.159.9.0/24		Cloudflare, Inc.	100% 642/645
162.159.10.0/24		Cloudflare, Inc.	100% 642/645
162.159.11.0/24		Cloudflare, Inc.	100% 642/645
162.159.12.0/24		Cloudflare, Inc.	100% 642/645

AS13335 Cloudflare, Inc.

Quick Links	AS Info	Graph v4	Graph v6	Prefixes v4	Prefixes v6	Peers v4	Peers v6
	Whois	RDAP	IRR	IX	Traceroute		

- GP Toolkit Home
- GP Prefix Report
- GP Peer Report
- uper Traceroute
- uper Looking Glass
- xchange Report
- ogon Routes
- /orld Report
- ulti Origin Routes
- NS Report
- op Host Report
- internet Statistics
- ooking Glass
- etwork Tools App
- ree IPv6 Tunnel
- IPv6 Certification
- IPv6 Progress
- ioing Native
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AS13335 IPv4 Peers



AS13335 Cloudflare, Inc.

Quick Links

AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6

Whois RDAP IRR IX Traceroute

- GP Toolkit Home
- GP Prefix Report
- GP Peer Report
- uper Traceroute
- uper Looking Glass
- xchange Report
- ogon Routes
- orld Report
- ulti Origin Routes
- NS Report
- op Host Report
- ternet Statistics
- oking Glass
- etwork Tools App
- ee IPv6 Tunnel
- v6 Certification
- v6 Progress
- oing Native
- redits
- ontact Us

Prefix	Description	Visibility
2400:cb00:4::/48		100% 619/621
2400:cb00:11::/48		99% 616/621
2400:cb00:12::/48		100% 618/621
2400:cb00:14::/48		100% 620/621
2400:cb00:15::/48		100% 618/621
2400:cb00:16::/48		100% 618/621
2400:cb00:17::/48		99% 617/621
2400:cb00:19::/48		100% 619/621
2400:cb00:20::/48		100% 620/621
2400:cb00:21::/48		100% 621/621
2400:cb00:22::/48		100% 618/621
2400:cb00:23::/48		100% 621/621
2400:cb00:26::/48		100% 620/621
2400:cb00:27::/48		100% 620/621
2400:cb00:28::/48		100% 620/621
2400:cb00:29::/48		99% 617/621
2400:cb00:31::/48		100% 620/621
2400:cb00:34::/48		100% 618/621
2400:cb00:35::/48		100% 621/621
2400:cb00:38::/48		100% 621/621
2400:cb00:39::/48		100% 620/621
2400:cb00:40::/48		100% 619/621
2400:cb00:41::/48		100% 621/621
2400:cb00:43::/48		100% 621/621
2400:cb00:44::/48		100% 621/621
2400:cb00:45::/48		99% 617/621
2400:cb00:46::/48		100% 619/621
2400:cb00:47::/48		100% 619/621

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27	Emirates Integrated Telecommunications Company PJSC		X	AS15860
28	SEACOM Limited		X	AS37100
29	Cellcom Fixed Line Communication L.P		X	AS1680
30	Mobitel Pvt Ltd		X	AS45356
31	JSC Kazakhtelecom		X	AS9198
32	GTT Communications Inc.		X	AS3257
33	Science Network Solution LLC			AS43268
34	PT. Eka Mas Republik		X	AS63859
35	Hulum Almustakbal Company for Communication Engineering and Services Ltd		X	AS203214
36	Comcast Cable Communications, LLC		X	AS33667
37	Telstra Limited		X	AS1221
38	Omega Telecom LLC		X	AS199995
39	Safaricom Limited		X	AS33771
40	Pakistan Telecommunication Company Limited		X	AS17557
41	SAMM TECNOLOGIA E TELECOMUNICACOES S.A		X	AS262585
42	ALT[GGNET TELECOM BACKBONE		X	AS53062
43	Vodafone Fiji Limited		X	AS38442
44	Apple Communication Ltd.		X	AS139901
45	Comcast Cable Communications, LLC		X	AS33666
46	The Communications Authority of Thailand(CAT)		X	AS4651
47	Wananchi Group (Kenya) Limited		X	AS15399
48	TNS-Plus LLP			AS35168
49	LLC BYCOM SYSTEMS		X	AS208407
50	KEMNET TECHNOLOGIES LIMITED		X	AS328576
51	RAIN GROUP HOLDINGS (PTY) LTD		X	AS37105
52	Telecom Operator & Internet Service Provider as well		X	AS17494
53	TELEFNICA BRASIL S.A		X	AS10429
54	TELECOM ITALIA SPARKLE S.p.A.		X	AS6762
55	Summit Communications Ltd		X	AS58717
56	PT Cyberindo Aditama		X	AS4787
57	Mobile Telecommunications Company		X	AS42961
58	APNIC ASN block		X	AS137187
59	Entel S.A. - EntelNet		X	AS6568
60	BR.Digital Provider		X	AS14840
61	Delta Telecom Ltd		X	AS29049
62	DITO TELECOMMUNITY CORP.		X	AS139831
63	Gujarat Telelink Pvt Ltd		X	AS45916
64	Kerala vision Broad Band Private Limited		X	AS138754
65	SINET Fiber One, Cambodia's Fastest Broadband Service.		X	AS59318



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INTERNET SERVICES

Search

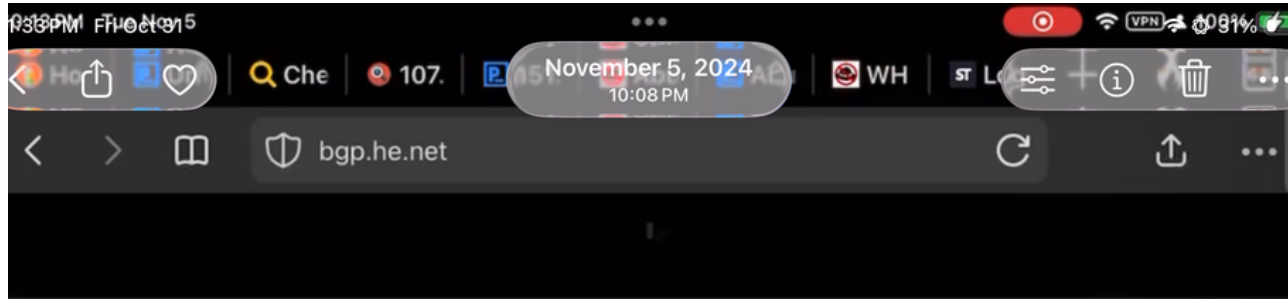
AS13335 Cloudflare, Inc.

Quick Links

GP Toolkit Home
GP Prefix Report
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uper Traceroute
uper Looking Glass
xchange Report
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ulti Origin Routes
NS Report
p Host Report
ternet Statistics
oking Glass
etwork Tools App
ee IPv6 Tunnel
v6 Certification
v6 Progress
oing Native
redits
ontact Us

AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

Rank	Description	IPv6	Peer
1	UFINET PANAMA S.A.	X	AS52468
2	SBN-IIG/AWN-IIG transit provider	X	AS45430
3	Wataniya Telecom Algeria		AS33779
4	ELETRONET S.A.	X	AS267613
5	Ncleo de Inf. e Coord. do Ponto BR - NIC.BR	X	AS61580
6	PIT COLOMBIA SAS	X	AS272806
7	Angola Cables	X	AS37468
8	MOBIFONE Corporation	X	AS131425
9	ISP/IXP IN CAMBODIA WITH THE BEST SERVICE IN THERE.		AS38623
10	Etihad Etisalat, a joint stock company	X	AS35819
11	COMCEL GUATEMALA S.A.	X	AS23243
12	Telconet S.A	X	AS27947
13	Claro NXT Telecomunicacoes Ltda	X	AS28573
14	Ooredoo Q.S.C.	X	AS8781
15	Mobile Telecommunication Company Saudi Arabia Joint-Stock company	X	AS43766
16	Vocus Connect International Backbone	X	AS4826
17	Liquid Telecommunications Ltd	X	AS30844
18	PJSC Vimpelcom	X	AS3216
19	BHARTI Airtel Ltd.	X	AS9498
20	TELEFONICA GLOBAL SOLUTIONS SL	X	AS12956
21	Reliance Jio Infocomm Limited	X	AS55836
22	Globe Telecoms	X	AS4775
23	Level 3 Parent, LLC	X	AS3356
24	DiGi Telecommunications Sdn. Bhd.	X	AS4818
25	Cogent Communications	X	AS174
26	Arelion Sweden AB	X	AS1299
27	Emirates Integrated Telecommunications Company PJSC	X	AS15802



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Rank	Description	IPv6	Peer
1	UFINET PANAMA S.A.	X	AS52468
2	SBN-IIG/AWN-IIG transit provider	X	AS45430
3	Wataniya Telecom Algeria		AS33779
4	ELETRONET S.A.	X	AS267613
5	Ncleo de Inf. e Coord. do Ponto BR - NIC.BR	X	AS61580
6	PIT COLOMBIA SAS	X	AS272806
7	Angola Cables	X	AS37468
8	MOBIFONE Corporation	X	AS131425
9	ISP/IXP IN CAMBODIA WITH THE BEST SERVICE IN THERE.		AS38623
10	Etihad Etisalat, a joint stock company	X	AS35819
11	COMCEL GUATEMALA S.A.	X	AS23243
12	Telconet S.A	X	AS27947
13	Claro NXT Telecomunicacoes Ltda	X	AS28573
14	Ooredoo Q.S.C.	X	AS8781
15	Mobile Telecommunication Company Saudi Arabia Joint-Stock company	X	AS43766
16	Vocus Connect International Backbone	X	AS4826
17	Liquid Telecommunications Ltd	X	AS30844
18	PJSC Vimpelcom	X	AS3216
19	BHARTI Airtel Ltd.	X	AS9498
20	TELEFONICA GLOBAL SOLUTIONS SL	X	AS12956
21	Reliance Jio Infocomm Limited	X	AS55836
22	Globe Telecoms	X	AS4775
23	Level 3 Parent, LLC	X	AS3356
24	DiGi Telecommunications Sdn. Bhd.	X	AS4818
25	Cogent Communications	X	AS174
26	Arcelik Sweden AB	X	AS1299

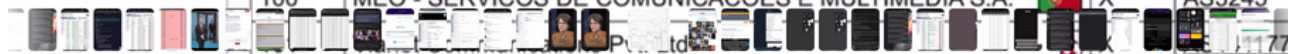
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132	Cyprus Telecommunications		X	AS37282
133	RADIUS TELECOMS, INC.		X	AS5587
134	Mainone Cable Company		X	AS37282
135	Multinet Pakistan Pvt. Ltd.		X	AS9260
136	Atria Convergence Technologies Pvt. Ltd. Broadband Internet Service Provider INDIA		X	AS24309
137	Total Access Communication PLC.		X	AS10089
138	Academia Nacional de Ciencias		X	AS263779
139	Orange Cte d'Ivoire		X	AS29571
140	Telecom Argentina S.A.		X	AS7303
141	Cyber Internet Services (Pvt) Ltd.		X	AS9541
142	Level3 Carrier Ltd.		X	AS58682
143	GENERAL COMMUNICATION, INC.		X	AS8047
144	Gtd Internet S.A.		X	AS14259
145	ALTICE DOMINICANA S.A.		X	AS28118
146	Telecom Armenia OJSC		X	AS12297
147	Airtel Networks Limited			AS36873
148	Telium Telecommunicaes Ltda		X	AS11432
149	Midcontinent Communications		X	AS11232
150	TOPNET			AS37705
151	Telecentro S.A.		X	AS27747
152	Telecom Malagasy			AS37054
153	SMART AXIATA Co., Ltd.		X	AS45498
154	ISP Service eG		X	AS212522
155	SaiGon Tourist cable Televition Company		X	AS45543
156	Ucom CJSC		X	AS8932
157	Cloudflare, Inc.		X	AS395747
158	Cablenet Communication Systems plc		X	AS35432
159	Digital United Inc.		X	AS4780
160	Telecom Algeria		X	AS36947
161	AVATO TECNOLOGIA S.A		X	AS262526
162	Asia Pacific Telecom		X	AS17709
163	Al Atheer Telecommunication-Iraq Co. Ltd. Incorporated in Cayman Islands		X	AS59588
164	Horizon Scope Mobile Telecom WLL		X	AS203217
165	CJSC RASCOM		X	AS20764
166	Nayatel (Pvt) Ltd		X	AS23674
167	Jordan Telecommunications PSC		X	AS8697
168	Atria Convergence Technologies pvt ltd		X	AS18209
169	COOREDOO TUNISIE SA		X	AS37693
170	LINK BRASIL TELECOMUNICACOES LTDA		X	AS271255



62	DITO TELECOM		X	AS45916
63	Gujarat Telelink Pvt Ltd		X	AS13875
64	Kerala Vision Broad Band Private Limited		X	AS59318
65	SINET Fiber One, Cambodia's Fastest Broadband Service.		X	AS27693
66	NipBr - NipCable do Brasil Telecom LTDA		X	AS23201
67	Telecel S.A.		X	AS24389
68	GrameenPhone Ltd.			AS37645
69	Finstar - Sociedade de Investimento e Participacoes S.A			AS13992
70	DISH MEDIA NETWORK PUBLIC LIMITED		X	AS30986
71	Scancom Limited		X	AS55915
72	Classic Tech Pvt. Ltd.		X	AS5416
73	BEYON B.S.C.		X	AS8551
74	Bezeq International Ltd.		X	AS37678
75	BOTSWANA FIBRE NETWORKS (Proprietary) Limited		X	AS17754
76	Excellmedia		X	AS51375
77	STC BAHRAIN B.S.C CLOSED		X	AS58396
78	PT. DEWATA TELEMATIKA		X	AS37447
79	ORANGE RDC			AS14988
80	Botswana Telecommunications Corporation		X	AS16637
81	MTN SA		X	AS37577
82	Orange Burkina Faso			AS8966
83	EMIRATES TELECOMMUNICATIONS GROUP COMPANY (ETISALAT GROUP) PJSC		X	AS28126
84	BRISANET SERVICOS DE TELECOMUNICACOES S.A		X	AS28294
85	GIGA MAIS FIBRA TELECOMUNICACOES S.A. (BS COSTA)		X	AS37204
86	Telone PVT Ltd		X	AS141731
87	Max Hub Limited		X	AS30999
88	EMTEL LIMITED		X	AS38082
89	True International Gateway Co., Ltd.		X	AS9873
90	Lao Telecom Communication, LTC		X	AS150748
91	Gmax		X	AS17639
92	Converge ICT Solutions Inc.		X	AS37002
93	Reunicable SAS		X	AS58715
94	EARTH TELECOMMUNICATION (Pvt) LTD.		X	AS3462
95	Data Communication Business Group		X	AS8529
96	Zain Omantel International FZ-LLC		X	AS29614
97	Ghana Telecommunications Company Limited		X	AS9329
98	Sri Lanka Telecom Internet		X	AS28210
99	GIGA MAIS FIBRA TELECOMUNICACOES S.A.		X	AS3243
100	MEO - SERVICOS DE COMUNICACOES E MULTIMEDIA S.A.		X	



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99	GIGA MAIS FILIPINAS TELECOMUNICACOES S.A.			
100	MEO - SERVICOS DE COMUNICACOES E MULTIMEDIA S.A.		X	AS3243
101	Vianet Communications Pvt. Ltd		X	AS141177
102	Kuwait Telecommunication Company (Under Association)		X	AS47589
103	DHIVEHI RAAJJEYGE GULHUN PLC		X	AS7642
104	ONLINE TELECOMUNICACOES LTDA		X	AS263327
105	TIME dotCom Berhad No. 14, Jalan Majistret U1/26 Hicom Glenmarie Industrial Park 40150 Shah Alam Sel		X	AS9930
106	Tuddo Internet Ltda.		X	AS268696
107	Systems Solutions & development Technologies Limited		X	AS63526
108	Telehouse EAD		X	AS57344
109	IQ Networks for Data and Internet Services Ltd		X	AS44217
110	AG Telekom MMC.			AS57293
111	Saudi Telecom Company JSC		X	AS39386
112	Vodafone Net Iletisim Hizmetler AS		X	AS15924
113	MIC TANZANIA LTD		X	AS37035
114	Companhia Itabirana Telecomunicaes Ltda		X	AS28201
115	GNC-Alfa CJSC		X	AS49800
116			X	AS263005
117	TM International Bangladesh Ltd. Internet service Provider, Gulshan-1, Dhaka-1212		X	AS24432
118	Nova hf		X	AS44735
119	SEA TELECOM LTDA		X	AS266445
120	Jordanian mobile phone services Ltd		X	AS48832
121	CELERIX TECNOLOGIA DE TELECOMUNICACOES LTDA		X	AS266167
122	MTN Uganda			AS20294
123	Websurfer Nepal Internet Service Provider		X	AS24550
124	APNIC ASN block		X	AS23889
125	Broadband Systems Corporation			AS327895
126	E-Networks Inc.		X	AS52253
127	UAB Bite Lietuva		X	AS13194
128	DTEL TELECOM		X	AS263073
129	Cable Tica		X	AS52228
130	Moldtelecom SA		X	AS8926
131	Partner Communications Ltd.		X	AS12400
132	Cyprus Telecommunications Authority		X	AS6866
133	RADIUS TELECOMS, INC.		X	AS55821
134	Mainone Cable Company		X	AS37282
135	Multinet Pakistan Pvt. Ltd.		X	AS9260
136	Atria Convergence Technologies Pvt. Ltd. Broadband Internet Service		X	AS24209

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166	Nayatel (Pvt) Ltd		X	AS18209
167	Jordan Telecom		X	AS37693
168	Atria Convergence Technologies pvt ltd		X	AS271253
169	OOREDOO TUNISIE SA		X	AS27775
170	LINK BRASIL TELECOMUNICACOES LTDA		X	AS35753
171	Telecommunicationcompany Suriname - TeleSur		X	AS266201
172	Integrated Telecom Co. Ltd		X	AS133982
173	VERO S.A		X	AS16814
174	Excitel Broadband Private Limited			AS268976
175	NSS S.A.		X	AS10118
176	Weclix Telecom S/A		X	AS23752
177	Hutchison Telephone Company Limited		X	AS33765
178	Nepal Telecommunications Corporation, Internet Services,		X	AS8346
179	TANZANIA TELECOMMUNICATIONS CO. LTD		X	AS4609
180	SONATEL-AS Autonomous System		X	AS18001
181	Companhia de Telecomunicacoes de Macau SARL		X	AS8151
182	Dialog Axiata PLC.		X	AS137491
183	UNINET		X	AS9038
184	APNIC ASN block		X	AS27895
185	Batelco Jordan			AS50010
186	Ncleo S.A.		X	AS23951
187	Omani Qatari Telecommunication Company SAOC		X	AS262186
188	PT JEMBATAN CITRA NUSANTARA		X	AS12849
189	TV AZTECA SUCURSAL COLOMBIA		X	AS24088
190	Hot-Net internet services Ltd.		X	AS45758
191	Hanoi Telecom Joint Stock Company - HCMC Branch		X	AS10075
192	APNIC ASN block		X	AS52341
193	Fiber@Home Global Limited		X	AS52374
194	WOM S.A.		X	AS36992
195	CABASE Camara Arg de Base de Datos y Serv en Linea		X	AS28198
196	ETISALAT MISR		X	AS11260
197	SEMPRE TELECOMUNICACOES LTDA		X	AS52294
198	EastLink		X	AS35900
199	CABASE Camara Arg de Base de Datos y Serv en Linea		X	AS10396
200	Digicel Barbados Ltd		X	AS4760
201	DATA COM CARIBE, INC.		X	AS16010
202	HKT Limited			AS3737
203	Magticom Ltd.		X	AS557
204	PenTeleData Inc.		X	
205	University of Maine System		X	



203	Magticom Ltd.	November 5, 2024 10:08 PM		X	AS3131
204	PenTeleData Inc.			X	AS3131
205	University of Maine System			X	AS557
206	Windstream Communication Ltd			X	AS139005
207	Ooredoo Maldives Plc			X	AS55944
208	Binariang Berhad			X	AS9534
209	APNIC ASN block			X	AS55943
210	irix			X	AS131330
211	Digicel Jamaica			X	AS40786
212	Digicel Trinidad and Tobago Ltd.			X	AS27800
213	Sinal Br Telecom Ltda			X	AS262761
214	Tashi InfoComm Limited			X	AS38740
215	UNIFIQUE TELECOMUNICACOES S/A			X	AS28343
216	TurkNet Iletisim Hizmetleri A.S.			X	AS12735
217	Silica Networks Argentina S.A.			X	AS7049
218	Bangladesh Submarine Cable Company Limited (BSCCL)			X	AS132602
219	SERVICIOS DE TELECOMUNICACIONES SETEL S.A. (XTRIM EC)			X	AS14522
220	VAINAVI INDUSTRIES LTD, INTERNET SERVICE PROVIDER, INDIA			X	AS45582
221	Hoshin Multimedia Center Inc.			X	AS9416
222	Transworld Associates (Pvt.) Ltd.			X	AS38193
223	Al Lawn Al Akhdar International Company for Communications and Information Technology Ltd.			X	AS57324
224	NATIONAL MOBILE TELECOMMUNICATIONS COMPANY K.S.C.P.			X	AS29357
225	Zain Omantel International FZ-LLC			X	AS59605
226	ALGAR TELECOM S/A			X	AS16735
227	Grande Communications Networks, LLC			X	AS7459
228	Albanian Satellite Communications sh.p.k.			X	AS47394
229	Aeprovi			X	AS27814
230	Century Telecom Ltda			X	AS21574
231	DOMINICAN CABLE GROUP DCG, S.R.L.			X	AS64126
232	Netonline Bilisim Sirketi LTD			X	AS44558
233	OOREDOO MYANMAR			X	AS132167
234	CORPORACION NACIONAL DE TELECOMUNICACIONES - CNT EP			X	AS28006
235	Allay Nawroz Telecom Company for Communication/Ltd.			X	AS21277
236	BIZNET NETWORKS			X	AS17451
237	Columbus Communications Grenada Ltd.			X	AS46650
238	CABLECOLOR S.A.			X	AS27884



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236	BIZNET NETWORK			
237	Columbus Com			
238	CABLECOLOR S.A.		X	AS27884
239	Office des Postes et Telecommunications New-Caledonia		X	AS18200
240	MobiCom Corporation		X	AS55805
241	DIL Technology Limited		X	AS210021
242	Berytech SCAL		X	AS15739
243	Celcom Axiata Berhad		X	AS10030
244	Kurdistan Net Company for Computer and Internet Ltd.		X	AS206206
245	APNIC ASN block		X	AS17882
246	Clear Path Networks Inc			AS45754
247	Vodafone Qatar P.Q.S.C		X	AS48728
248	GEMNET LLC		X	AS45204
249	Atom Myanmar Limited		X	AS133385
250	JSC Silknet		X	AS35805
251	DIL Technology Limited		X	AS211090
252	Palestine Telecommunications Company (PALTEL)		X	AS12975
253	Cable Onda		X	AS18809
254	TOT Public Company Limited		X	AS38040
255	ASIACELL COMMUNICATIONS PJSC			AS51684
256	Unified National Networks			AS10094
257	America Movil Peru S.A.C.		X	AS12252
258	Workonline Communications(Pty) Ltd		X	AS37271
259	Orange S.A.		X	AS5511
260	Faculty of Computer Science and Engineering - Ss. Cyril and Methodius University in Skopje			AS203522
261	BBIX, Inc		X	AS37904
262	Comcast Cable Communications, LLC		X	AS21508
263	Responsible Internet Sustainability Effort		X	AS141013
264	APNIC ASN block		X	AS23676
265	DJIBOUTI TELECOM S.A.		X	AS30990
266	AMX Argentina S.A.		X	AS19037
267	NTT America, Inc.		X	AS2914
268	TATA COMMUNICATIONS (AMERICA) INC		X	AS6453
269	Euroweb Romania S.R.L.		X	AS6663
270	PJSC Rostelecom		X	AS12389
271	Telstra Global		X	AS4637
272	Techtel LMDS Comunicaciones Interactivas S.A.		X	AS11664
273	Sify Limited		X	AS9583
274	Hurricane Electric LLC		X	AS6939

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271	Telstra Global		X	AS11664
272	Techtel LMDS Comunicaciones Interactivas S.A.		X	AS11664
273	Sify Limited		X	AS9583
274	Hurricane Electric LLC		X	AS6939
275	PCCW Global, Inc.		X	AS3491
276	Comcast Cable Communications, LLC		X	AS33489
277	Serbian Open Exchange DOO		X	AS13004
278	US Internet Corp			AS10242
279	TATA Communications formerly VSNL is Leading ISP		X	AS4755
280	DOLPHIN TELECOMMUNICATION LIMITED			AS37613
281	Comcast Cable Communications, LLC		X	AS22258
282	Comcast Cable Communications, LLC		X	AS7922
283	Zayo Bandwidth		X	AS6461
284	RETN Limited		X	AS9002
285	Comcast Cable Communications, LLC		X	AS33660
286	Sri Lanka Telecom PLC, GLobal Peering		X	AS45489
287	Comcast Cable Communications, LLC		X	AS7016
288	Sportradar AG			AS51776
289	Telemach Slovenija d.o.o.		X	AS3212
290	EDGEUNO S.A.S		X	AS7195
291	COLT Technology Services Group Limited		X	AS8220
292	TI Sparkle Turkey Telekomunikasyon A.S		X	AS47123
293	JasTel Network International Gateway		X	AS45629
294	GTT		X	AS4436
295	meerfarbig GmbH & Co. KG		X	AS34549
296	F5 Networks SARL		X	AS35280
297	Liberty Global B.V.		X	AS6830
298	Vodafone Group PLC		X	AS1273
299	Hong Kong Internet Exchange-Route Server 1		X	AS4635
300	iFog GmbH		X	AS34927
301	Init7 (Switzerland) Ltd.		X	AS13030
302	Core-Backbone GmbH		X	AS33891
303	SuperCell ISP LTD			AS207811
304	IP-Max SA		X	AS25091
305	Seabras 1 USA, LLC		X	AS13786
306	APNIC ASN block		X	AS137405
307	TPG Telecom Limited		X	AS7545
308	GlobeNet Cabos Submarinos Colombia, S.A.S.		X	AS52320
309	FLAG TELECOM UK LIMITED		X	AS15412

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307	TPG Telecom L		
308	GlobeNet Cabo. S.A.S.		
309	FLAG TELECOM UK LIMITED		X AS15412
310	KDDI CORPORATION		X AS2516
311	DrukNet ISP		X AS17660
312	Internet2		X AS11164
313	NTS workspace AG		X AS15576
314	Zayo Infrastructure France SA		X AS8218
315	PowerHost Telecom SPA		X AS263237
316	NORDUnet		X AS2603
317	Dimension Data		AS3741
318	IX Reach Ltd		X AS4455
319	Fiber Telecom S.p.A.		X AS41327
320	AT&T Services, Inc.		X AS7018
321	Free Pro SAS		X AS30781
322	APNIC ASN block		X AS23764
323	TOTAL PLAY TELECOMUNICACIONES SA DE CV		X AS17072
324	GlobalConnect AB		X AS12552
325	EDGOO NETWORKS UNIPESOAAL LDA		X AS6424
326	Blix Solutions AS		X AS50304
327	Hivane Association		X AS34019
328	Iway AG		X AS8758
329	Openfactory GmbH		X AS58299
330	Singapore Telecommunications Ltd		AS7473
331	Internet Initiative Japan Inc.		X AS2497
332	CLARO S.A.		AS4230
333	Broadband Hosting B.V.		X AS20562
334	MOACK.Co.LTD		AS138195
335	IPTP LTD		X AS41095
336	Administracion Nacional de Telecomunicaciones		X AS6057
337	euNetworks GmbH		X AS13237
338	HGC Global Communications Limited		X AS9304
339	WIIT AG		X AS24961
340	Eurofiber France SAS		X AS200780
341	Hydra Communications Ltd		AS25369
342	Joint Stock Company TransTeleCom		X AS20485
343	Tele2 Sverige AB		X AS1257
344	IELO-LIAZO SERVICES SAS		X AS29075
345	Belgacom International Carrier Services SA		AS6774
346	CABASE Camara Arg de Base de Datos y Serv en Linea		AS52376

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383	APNIC ASN bloc			
384	GLOBALCONN			
385	GEANT Vereniging		X	AS21320
386	Windstream Communications LLC		X	AS7029
387	MYTEK TRADING PTY LTD			AS132825
388	Association GRIFON		X	AS204092
389	TelHi Corporation		X	AS150365
390	LWLcom GmbH		X	AS50629
391	Fiord Networks, UAB		X	AS28917
392	Viewqwest Pte Ltd		X	AS18106
393	PJSC MegaFon		X	AS31133
394	weber.digital GmbH		X	AS35710
395	NHM - S.R.L.		X	AS62275
396	Trans Union, LLC			AS19353
397	Avaloq Sourcing (Switzerland & Liechtenstein) SA			AS197312
398	CHORUS NEW ZEALAND LIMITED			AS132896
399	Internet Vikings International AB			AS51747
400	Optimizely AB		X	AS30811
401	NAVEGALO S.A.			AS28110
402	Paulus M. Hoogsteder			AS31019
403	ECi Software Solutions, Inc.			AS397076
404	ULTIMATE SOFTWARE GROUP			AS32077
405	Investec Bank Ltd			AS14516
406	Staclar Carrier Ltd.		X	AS34854
407	West263 International Limited			AS139021
408	IOPEX TECHNOLOGIES PRIVATE LIMITED			AS149622
409	maincubes one GmbH			AS214401
410	FBW NETWORKS SAS		X	AS49434
411	Municipal Network Services			AS327804
412	i2c Incorporated			AS16501
413	Genentech, Inc.			AS10725
414	xTom		X	AS6233
415				AS149648
416	Qualcomm, Inc.			AS17032
417	RACKNATION S.A.			AS264763
418	BP International Ltd			AS15753
419	ONEQCODE ASSETS PTY LTD		X	AS140627
420	Arcade Solutions AG		X	AS51873
421	Suite 1201, Chater House			AS45640
422	USC / UFMG PEERING Research Testbed			AS47065



454	Etihad Etisalat			AS48231
455	Adaptive Data Networks			AS209029
456	Colonial IU 20			AS16478
457	Jori Vanneste		X	AS212123
458	PrimeXM Networks			AS40809
459	Voxtelesys LLC			AS400011
460	CommandLink, LLC			AS396970
461	Ministry of Education			AS24318
462	Specialized Technical Services (STS) Co.Ltd			AS209029
463	AbbVie, Inc.			AS133013
464	Continent 8 LLC			AS14537
465	Lambda Creative MB			AS35384
466	VTX Services SA			AS12350
467	Vinted, UAB			AS59874
468	Virtual Technologies & Solutions		X	AS37721
469	BP Australia			AS55504
470	TELY Ltda.		X	AS53087
471	Online Computer Library Center			AS4373
472	Corning Incorporated			AS16638
473	Digital Fortress			AS6423
474	PAR Technology Corporation			AS394705
475	DR Fortress, LLC			AS40300
476	KLDiscovery Ontrack, LLC			AS27401
477	AVALOQ SOURCING ASIA PACIFIC (SINGAPORE) PTE. LTD.			AS138626
478	Payments Network Malaysia Sdn Bhd			AS139830
479	A2B IP B.V.		X	AS51088
480	Iraq Electronic Gate for Financial Services Co. Ltd			AS205470
481	LoadEdge Limited			AS32708
482	KLDiscovery Ontrack Sp. z o.o.			AS43570
483	WNB A/S		X	AS207934
484	THE HUT.COM LIMITED			AS197651
485	Pitney Bowes Incorporated			AS11086
486	DoubleVerify, Inc.			AS36062
487	GTT Communications Inc.		X	AS286
488	Fortis Clearing Chicago LLC			AS26052
489	Bart Vrancken trading as MLaB		X	AS41047
490	Webhost Limited			AS34738
491	Ahnlab, Inc.			AS17876
492	Kabel-TV Lampert GmbH & Co KG		X	AS59890
493	Catalyst Net Ltd			AS24226
494	DNB Nordic AB			AS269





419	ONECODE AS		X	AS51873
420	Arcade Solutions AG			AS45640
421	Suite 1301, Chater House			AS47065
422	USC / UFMG PEERING Research Testbed			AS50763
423	MCKAYCOM LTD		X	AS21651
424	Thrivent Financial for Lutherans			AS23145
425	IBM		X	AS47160
426	MOJI SAS			AS18789
427	Main Line Health, Inc.			AS46621
428	Broome - Tioga BOCES			AS15623
429	Cyberlink AG		X	AS15989
430	Intercontinental Exchange Inc.			AS31369
431	National Social Security Institute			AS140731
432	TOHU Public Internet		X	AS5408
433	National Infrastructures for Research and Technology S.A.			AS198150
434	SIACOM JSC		X	AS209295
435	Ambientia Group Oy			AS53193
436	Eliane S/A Revestimentos Cermicos			AS11178
437	AccessPlus Communications, Inc.		X	AS18833
438	American Specialty Health Plans of CA, Inc.			AS137973
439	HONG KONG INTERBANK CLEARING LIMITED			AS53871
440	Deltek, Inc.			AS56665
441	Proximus Luxembourg S.A.		X	AS42875
442	National Car Parks Limited			AS13798
443	L'Oreal USA			AS199936
444	Netzwerke GmbH		X	AS33164
445	Iristel Inc			AS36406
446	United States Fire Insurance Company			AS2639
447	ZOHO			AS17289
448	ULTIMATE SOFTWARE GROUP			AS55818
449	MC-IX Matrix Internet Exchange RS-1		X	AS43937
450	Playtech Estonia OU			AS2152
451	CENIC		X	AS328867
452	Corebach Backbone SARL			AS17350
453	Moody's Corp.			AS48237
454	Etihad Etisalat, a joint stock company			AS23367
455	Adaptive Data Networks, LLC		X	AS16478
456	Colonial IU 20			AS212123
457	Jori Vanneste		X	





343	Tele2 Sverige AB		X	AS6774
344	IELO-LIAZO SE		X	AS52376
345	Belgacom International Carrier Services SA		X	AS58453
346	CABASE Camara Arg de Base de Datos y Serv en Linea		X	AS3214
347	China Mobile International Limited		X	AS64289
348	xTom GmbH		X	AS6079
349	Macarne LLC		X	AS50869
350	RCN		X	AS57866
351	IPng Networks GmbH		X	AS701
352	Fusix Networks B.V.		X	AS52025
353	Verizon Business		X	AS28329
354	ParadoxNetworks Limited		X	AS19754
355	Megatelecom Telecomunicacoes Ltda		X	AS39588
356	The Fusion Network, LLC		X	AS20495
357	Boomerang Communications LLC		X	AS33490
358	We Dare B.V.		X	AS17676
359	Comcast Cable Communications, LLC		X	AS47147
360	SoftBank Corp.		X	AS61568
361	ANEXIA Internetdienstleistungs GmbH		X	AS48362
362	ALOO TELECOM - FSF TECNOLOGIA SA		X	AS18881
363	Stadtwerke Feldkirch		X	AS63956
364	TELEFNICA BRASIL S.A		X	AS2518
365	APNIC ASN block		X	AS61138
366	BIGLOBE Inc.		X	AS39351
367	Zappie Host LLC		X	AS12637
368	31173 Services AB		X	AS55850
369	SEEWEB s.r.l.		X	AS47692
370	APNIC ASN block		X	AS8359
371	Nessus GmbH		X	AS15000
372	MTS PJSC		X	AS60171
373	Data-Beam Business Solution		X	AS24115
374	AFR-IX TELECOM SAU		X	AS7575
375	Equinix		X	AS5713
376	Australian Academic and Research Network (AARNet)		X	AS8708
377	Telkom SA Ltd.		X	AS20061
378	DIGI ROMANIA S.A.		X	AS47734
379	Gulf Bridge International Inc.		X	AS9680
380	Telecom IT Solutions SRL		X	AS37497
381	HiNet Service Center in U.S.A		X	AS33008
382	Network Platforms (PTY) LTD		X	AS33008
383	APNIC ASN block		X	AS33008



486	DoubleVerify, Inc.			
487	GTT Communications Inc.			
488	Fortis Clearing Chicago LLC			AS26052
489	Bart Vrancken trading as MLaB		X	AS41047
490	Webhost Limited			AS34738
491	Ahnlab, Inc.			AS17876
492	Kabel-TV Lampert GmbH & Co KG		X	AS59890
493	Catalyst.Net Ltd			AS24226
494	DND Nordic AB			AS8289
495	PureVoltage Hosting Inc.			AS13830
496	Intermedia.net, Inc.			AS16406
497	Consumer Cellular Inc.			AS396875
498	CONCENTRIX SERVICES BULGARIA EOOD			AS200361
499	TELUS Communications Inc.		X	AS852
500	Moneris Solutions Corporation			AS62881
501	Kerfuffle, LLC		X	AS35008
502	Micron21 Datacentre Pty Ltd		X	AS38880
503	LexisNexis Risk Solutions FL Inc.			AS46411
504	Infinite Campus, Incorporated			AS23046
505	The Penguin Collective Ltd		X	AS48297
506	QUALCOMM (UK) LIMITED			AS60933
507	BANCO PATAGONIA S.A			AS265855
508	Federal Home Loan Mortgage Corporation			AS17275
509	MilkyWan Association		X	AS2027
510	AccessLine Communications Corp.			AS20385
511	Laboratory Corporation of America			AS53768
512	Gameforge 4D GmbH			AS47195
513	Razorblue Ltd		X	AS15692
514	Universal Layer LLC			AS399532
515	UnitedCloud			AS396223
516	Dickinson Financial Corporation			AS14582
517	LivePerson, Inc.			AS11054
518	MainStreaming SpA		X	AS51185
519	Central Susquehanna Intermediate Unit			AS46362
520	The Patent Office			AS9011
521	tyntec GmbH			AS43566
522	ULTIMATE SOFTWARE GROUP			AS26158
523	MYOB Australia Pty Ltd			AS135355
524	Northeast Georgia Medical Center, Inc.			AS21673
525	Bigcommerce Inc.			AS399566





519	Central Susque	November 5, 2024		
520	The Patent Office	10:08 PM		
521	tyntec GmbH			AS43566
522	ULTIMATE SOFTWARE GROUP			AS26158
523	MYOB Australia Pty Ltd			AS135358
524	Northeast Georgia Medical Center, Inc.			AS21673
525	Bigcommerce Inc.			AS399566
526	NBN Co LTD			AS55834
527	ABN AMRO Clearing Bank NV			AS211269
528	CASABLANCA INT a.s.			AS15685
529	Vetta Online Ltd			X AS64073
530	Travis County, Texas			AS397965
531	Voxbone SA			AS41135
532	Ping Identity Corporation			X AS400797
533	Omer GOLGELI			X AS202365
534	Litgrid AB			AS212102
535	Raiffeisen Bank S.A.			AS38981
536	Dimension Network & Communication Limited			AS59371
537	United Rentals (North America), Inc.			AS27271
538	GleSYS AB			X AS42708
539	Mikrofinansovaya organizaciya Robocash.kz LLP			AS50756
540	Avaya Inc.			AS16466
541	Eastman Chemical Company			AS11082
542	TUFTS ASSOCIATED HEALTH PLANS, INC.			AS399314
543	GLBB Japan KK			X AS55900
544	IQVIA Holdings Inc			AS14948
545	Voitress			AS393409
546	Freifunk Essen e.V.			X AS206356
547	Falcore Investments Pty Ltd			X AS148968
548	TWL-Kom GmbH			AS9022
549	TECHIT.BE SRL			X AS213241
550	Netwerkvereniging Coloclue			X AS8283
551	Franklin Resources			AS26685
552	Eastman Chemical Company			AS11326
553	FastPix Inc.			X AS401021
554	MONEXT SAS			AS197788
555	Magna International Inc.			AS26838
556	Zoom Video Communications, Inc			AS30103
557	KINX			AS9957
558	C2 SIA			X AS39626
559	First Universal Pty Ltd			X AS136557



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554	MONEXT SAS			
555	Magna International Inc.			
556	Zoom Video Communications, Inc			AS30103
557	KINX			AS9957
558	C3 SIA		X	AS39626
559	Host Universal Pty Ltd		X	AS136557
560	PowerSerg Data Systems Inc			AS400566
561	QUALYS, Inc.			AS27385
562	NETWORK INNOVATIONS, LLC		X	AS53828
563	Avago Technologies U.S. Inc.			AS19637
564	eNetworks cc			AS32653
565	TekSavvy Solutions, Inc.		X	AS5645
566	area-7 IT-Services GmbH		X	AS60150
567	UAB Cgates		X	AS21412
568	LMAX Limited			AS41477
569	BDSF Technology B.V.			AS205943
570	Hoffmann - La Roche Ltd.			AS2047
571	HELLENIC EXCHANGES-ATHENS STOCK EXCHANGE S.A.			AS13038
572	AMERICAN TOWER DO BRASIL-COMUNICAO MULTIMEDIA LT			AS23106
573	Arista Networks, Inc.			AS55064
574	CONVERGENCE (GROUP NETWORKS) LIMITED			AS41811
575	VOISSNET S.A.			AS21765
576	SURF B.V.		X	AS1103
577	Centura Health Corporation			AS29711
578	Fairview Health Services			AS33274
579	MIGO TELECOM		X	AS263152
580	Miran Ltd.		X	AS41722
581	Kenya Commercial Bank Limited			AS328093
582	Cool Ideas Service Provider (Pty) Ltd			AS37680
583	Cloudflare London, LLC		X	AS209242
584	bKash Limited			AS38303
585	Panterra Networks, Inc.			AS11374
586	ALWAYS ON SAS		X	AS50628
587	Kjartan Hrafnkelsson		X	AS51019
588	i3D.net B.V		X	AS49544
589	Nevada Power Company			AS399086
590	APPLIED SYSTEMS, INC			AS25913
591	OLATHE PUBLIC SCHOOLS USD 233			AS393883
592	BSE Software GmbH		X	AS9044





617	Taiwan Digital			AS200692
618	KLDiscovery Limited			AS48932
619	Saudi Arabian Airlines			AS203885
620	Societe nationale SNCF SA			AS1204
621	The State University of New York			AS64475
622	Freifunk Frankfurt am Main e.V.		X	AS263541
623	IMF NETWORK DATA LTDA - ME		X	AS8651
624	MUFG Securities EMEA PLC			AS399796
625	Novantas, Inc.			AS58057
626	Securebit AG		X	AS51786
627	Patrick Velder		X	AS1983
628	Bernalillo County			AS31554
629	LANSOFT DATA SRL		X	AS132571
630	Euronet Services India Pvt Ltd			AS26362
631	Travis Credit Union			AS17163
632	Great American Insurance Company			AS1267
633	WIND TRE S.P.A.		X	AS34224
634	Neterra Ltd.			AS39122
635	Blacknight Internet Solutions Limited		X	AS137445
636	APNIC ASN block			AS7483
637	APNIC ASN block			AS29504
638	Freenet Liberec, z.s.		X	AS198032
639	Cambridge Assessment			AS213125
640	The National Health Service of Ukraine			AS30600
641	Metronet		X	AS6720
642	Magistrat der Stadt Wien, Magistratsabteilung 01			AS27647
643	Weebly, Inc.			AS211964
644	WEBHELP CAGRI MERKEZI ve MUSTERI HIZMETLERI A.S			AS57463
645	NetIX Communications JSC		X	AS56307
646	ac3, Australian Centre for Advanced Computing and Communications			AS5398
647	AS5398 SA		X	AS32437
648	EDGECONNECT LEGACY			AS40680
649	Protocol Labs		X	AS59414
650	cloudscale.ch AG		X	AS48919
651	UACITY Ltd.		X	AS12179
652	Unitas Global			AS48314
653	Michael Sebastian Schinzel trading as IP-Projects GmbH & Co. KG			AS329035
654	Telsense			





587	Kjartan Hrafnk	November 5, 2024 10:08 PM		X	AS49544
588	i3D.net B.V				AS39908
589	Nevada Power Company				AS25913
590	APPLIED SYSTEMS, INC				AS39388
591	OLATHE PUBLIC SCHOOLS USD 233				AS9044
592	BSE Software GmbH			X	AS10584
593	TradeWeb, LLC				AS60100
594	VISTA BANK (ROMANIA) S.A.				AS7941
595	Internet Archive				AS39425
596	Tech Futures Interactive Inc.			X	AS11015
597	Texas Children's Hospital				AS21631
598	Aleksandr Muravja			X	AS53595
599	Oshkosh Corporation				AS17802
600	Macquarie Bank				AS46158
601	OCM BOCES				AS39730
602	Eastman Chemical Company				AS54568
603	Brandywine Global Investments				AS53427
604	TGLOBAL NETWORKS			X	AS46450
605	Pilot Fiber, Inc.			X	AS24655
606	BANK OF CYPRUS PUBLIC COMPANY LIMITED				AS4764
607	Aussie Broadband				AS15600
608	Quickline AG				AS59907
609	IQVIA SOLUTIONS HQ LTD				AS13649
610	Flexential Colorado Corp.				AS12565
611	GROUPE LDLC SA				AS12969
612	Ljosleidarinn ehf			X	AS13745
613	APNIC ASN block				AS39759
614	Passepartout s.p.a.				AS14017
615	Burlington Northern Sante Fe Railway Corp				AS13613
616	SQUIXA PTY LIMITED				AS18041
617	Taiwan Digital Streaming Co.			X	AS20069
618	KLDiscovery Limited				AS48932
619	Saudi Arabian Airlines				AS20388
620	Societe nationale SNCF SA				AS1204
621	The State University of New York				AS64475
622	Freifunk Frankfurt am Main e.V.			X	AS26354
623	IMF NETWORK DATA LTDA - ME			X	AS8651
624	MUFG Securities EMEA PLC				AS39979
625	Novantas, Inc.				AS58957



719	Kayak Software			
720	WIDE Project		X	AS2500
721	R.J. OBrien Limited			AS202363
722	Teyja Iceland hf			AS200432
723	PT Telekomunikasi Indonesia		X	AS7713
724	Origo hf			AS29689
725	DST Systems, Inc.			AS14792
726	Northpower Ltd			AS131254
727	McCain Foods Limited			AS17170
728	Shaw Communications Inc.			AS6327
729	Garmin International Inc			AS140079
730	Zero Distance LLC			AS57406
731	APNIC ASN block			AS134589
732	Nexthop AS		X	AS49788
733	Netia SA		X	AS12741
734	Entrata			AS16844
735	Jola Cloud Solutions Ltd			AS212174
736	Ooma, Inc.			AS30303
737	CompuCom Systems, Inc.			AS7810
738	B3 S.A. Brasil, Bolsa, Balco			AS28596
739	European Patent Organisation			AS28756
740	CTC Transmisiones Regionales S.A.			AS7004
741	SWITCH		X	AS559
742	Mohawk Industries, Inc.			AS22445
743	Optimizely GmbH			AS41821
744	Aranet Play		X	AS262462
745	University of Vermont		X	AS1351
746	CELESTE SAS		X	AS34177
747	Daktela s.r.o.			AS206587
748	andrewnet		X	AS1003
749	Cilix Limited			AS215639
750	Avago Technologies U.S. Inc.			AS13713
751	Sarah Rossius trading as Servperso Systems		X	AS34872
752	Claranet Limited		X	AS8426
753	Valitor hf			AS47828
754	Huicast Telecom Limited		X	AS60539
755	DiPocket Limited			AS212606
756	The George Washington University		X	AS11039
757	ha-vel internet s.r.o.			AS15935



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648	EDGECONNECT			
649	Protocol Labs			
650	cloudscale.ch AG		X	AS59414
651	UACITY Ltd.		X	AS48919
652	Unitas Global			AS12179
653	Michael Sebastian Schinzel trading as IP-Projects GmbH & Co. KG			AS48314
654	Telsense			AS329035
655	Fiberby ApS		X	AS42541
656	Kurlec Wireless (PTY) Ltd			AS328320
657	SoftLayer Technologies Inc.			AS36351
658	LG DACOM Corporation			AS3786
659	TWNIC-TW-4-byte-AS-BLOCK1			AS131620
660	APPLIED SYSTEMS, INC			AS54023
661	Telax Hosted Call Centre			AS46994
662	Swiss Federation represented by FOITT			AS33845
663	Thai Oil Public Company Limited			AS152190
664	LMAX Digital Group Limited			AS39498
665	APNIC ASN block			AS135357
666	CTS Communications Corp		X	AS19653
667	Axialys SAS			AS16363
668	NewMedia Express Pte Ltd		X	AS38001
669	Cadence Bank, N.A.			AS54991
670	GPU.ONE ENTERPRISE INC			AS20016
671	REGIONS FINANCIAL CORPORATION			AS10801
672	Dauphin Telecom			AS33392
673	McLaren Macomb			AS397745
674	Insight Actuaries & Consultants PTY LTD		X	AS328964
675	AbbVie, Inc.			AS26534
676	Aplitt Sp. z o.o.		X	AS49420
677	PC Maniacs (Pty) Ltd			AS327960
678	CoreWeave, Inc			AS33425
679	Television New Zealand			AS37999
680	Blix Group AS		X	AS61292
681	Bright Horizons			AS32130
682	Eurotranstelecom Ltd		X	AS35320
683	Match Group, LLC			AS19071
684	New York State Unified Court System			AS20330
685	RTO GmbH			AS203175
686	B3 S.A. Brasil, Bolsa, Balco			AS52672



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648	EDGECONNECT			
649	Protocol Labs			
650	cloudscale.ch AG		X	AS59414
651	UACITY Ltd.		X	AS48919
652	Unitas Global			AS12179
653	Michael Sebastian Schinzel trading as IP-Projects GmbH & Co. KG			AS48314
654	Telsense			AS329035
655	Fiberby ApS		X	AS42541
656	Kurlec Wireless (PTY) Ltd			AS328320
657	SoftLayer Technologies Inc.			AS36351
658	LG DACOM Corporation			AS3786
659	TWNIC-TW-4-byte-AS-BLOCK1			AS131620
660	APPLIED SYSTEMS, INC			AS54023
661	Telax Hosted Call Centre			AS46994
662	Swiss Federation represented by FOITT			AS33845
663	Thai Oil Public Company Limited			AS152190
664	LMAX Digital Group Limited			AS39498
665	APNIC ASN block			AS135357
666	CTS Communications Corp		X	AS19653
667	Axialys SAS			AS16363
668	NewMedia Express Pte Ltd		X	AS38001
669	Cadence Bank, N.A.			AS54991
670	GPU.ONE ENTERPRISE INC			AS20016
671	REGIONS FINANCIAL CORPORATION			AS10801
672	Dauphin Telecom			AS33392
673	McLaren Macomb			AS397745
674	Insight Actuaries & Consultants PTY LTD		X	AS328964
675	AbbVie, Inc.			AS26534
676	Aplitt Sp. z o.o.		X	AS49420
677	PC Maniacs (Pty) Ltd			AS327960
678	CoreWeave, Inc			AS33425
679	Television New Zealand			AS37999
680	Blix Group AS		X	AS61292
681	Bright Horizons			AS32130
682	Eurotranstelecom Ltd		X	AS35320
683	Match Group, LLC			AS19071
684	New York State Unified Court System			AS20330
685	RTO GmbH			AS203175
686	B3 S.A. Brasil, Bolsa, Balco			AS52672



684	New York State			AS205113
685	RTO GmbH			AS205113
686	B3 S.A. Brasil, Bolsa, Balco			AS52672
687	APNIC ASN block			AS137386
688	Asia Pacific Network Information Centre		X	AS4777
689	Andrews Federal Credit Union			AS11466
690	Advent Software			AS11144
691	IP ServerOne Solutions Sdn Bhd			AS45352
692	Cloudflare Inc		X	AS202623
693	Joink, LLC			AS32709
694	Bet Invest LTD			AS199535
695	CMA CGM SA			AS21203
696	Columbus Networks USA, Inc.		X	AS23520
697	MAGNA STEYR Fahrzeugtechnik AG und Co KG			AS12766
698	Korea Security Technology Co., Ltd.			AS38106
699	iCastCenter		X	AS53767
700	GMO Internet, Inc			AS58791
701	ArcelorMittal Sistemas SA			AS14723
702	Emagine Concept, Inc.			AS31972
703	GETRESPONSE Sp.z o.o.			AS198881
704	Xilinx Incorporated			AS32537
705	NEOCOMISP LIMITED, IPTX Transit and Network Service Provider in Cambodia.		X	AS9902
706	BJT PARTNERS SAS			AS201188
707	Visteon Corporation			AS198321
708	JSC ER-Telecom Holding		X	AS48858
709	Misaka Network, Inc.		X	AS57695
710	Tradeweb Japan			AS37893
711	Workday Limited			AS198301
712	Rapyd Europe hf.			AS204586
713	Infinite Campus, Incorporated			AS20285
714	Sitrox AG			AS48027
715	Impulse Internet Services			AS4927
716	Transunion Cibil Limited			AS133860
717	Asia Pacific Network Information Centre			AS4608
718	Colonial Pipeline Company			AS46739
719	Kayak Software			AS36116
720	WIDE Project		X	AS2500
721	R.J. O'Brien Limited			AS202363
722	Teya Iceland hf			AS200432



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752	Claranet Limited			AS47828
753	Valitor hf			AS47828
754	Huicast Telecom Limited		X	AS60539
755	DiPocket Limited			AS212606
756	The George Washington University		X	AS11039
757	ha-vel internet s.r.o.			AS15935
758	Telx			AS36086
759	My Solutions Corporation Ltd.			AS45446
760	DSTI Holdings Limited			AS207245
761	CERIDIAN			AS21787
762	TELNET S.r.l.			AS5392
763	Roche Diagnostics GmbH			AS47340
764	DBS Bank India Limited			AS152594
765	University Corporation for Atmospheric Research			AS14041
766	Uber Technologies, Inc			AS63086
767	Nationale Alarmzentrale			AS202123
768	SpaceNet AG			AS5539
769	LSHIY LLC		X	AS955
770	Proton AG			AS209103
771	BET Software (Pty) Ltd			AS329068
772	APNIC ASN block			AS132365
773	Stratos Global Services, LLC			AS32782
774	Transunion Interactive, Inc.			AS12273
775	Transpower New Zealand Ltd.			AS38495
776	Bandwidth Inc.			AS12130
777	Karabro AB		X	AS51519
778	Bhp Billiton Petroleum (deepwater) Inc.			AS400608
779	Hormel Foods Corporation			AS46568
780	G-Core Labs S.A.		X	AS199524
781	Mobifone Global JSC			AS45896
782	Ytel, Inc.			AS53591
783	GRUPO IP (BRASIL) - IP TELECOM		X	AS61573
784	APNIC ASN block			AS135161
785	CLSA Ltd			AS10127
786	Berkley Technology Services LLC			AS32158
787	Allergan, Inc.			AS10666
788	Sprint		X	AS1239
789	FASTPATH IKE		X	AS56457
790	Worldline IGSA SA		X	AS47957



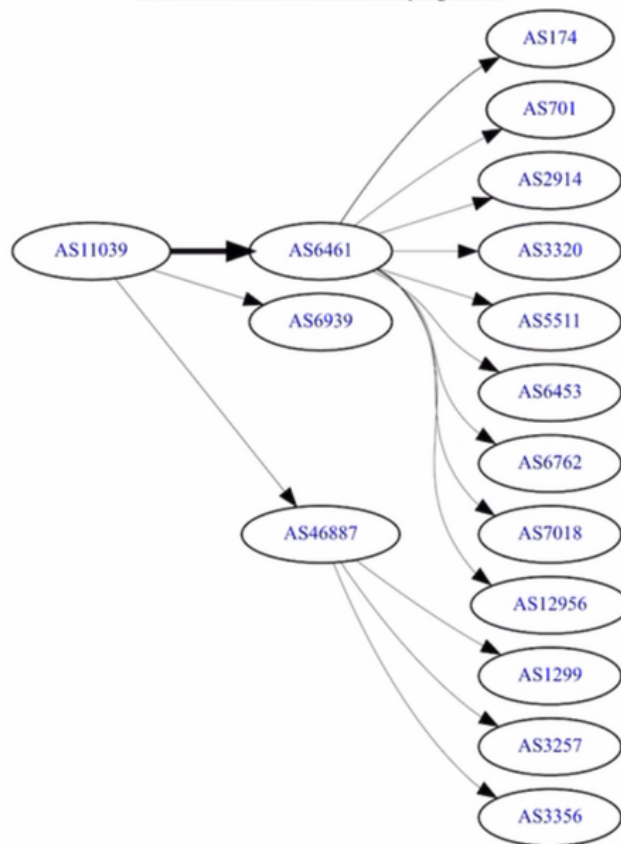
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Quick Links

GP Toolkit Home
GP Prefix Report
GP Peer Report
uper Traceroute
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NS Report
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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

AS11039 IPv4 Route Propagation





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- Graph v6
- Prefixes v4
- Prefixes v6
- Peers v4
- Peers v6
- Whois
- RDAP
- IRR
- IX
- Traceroute

- GP Toolkit Home
- GP Prefix Report
- GP Peer Report
- uper Traceroute
- uper Looking Glass
- xchange Report
- ogon Routes
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- ulti Origin Routes
- NS Report
- op Host Report
- ternet Statistics
- oking Glass
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- ee IPv6 Tunnel
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- 'v6 Progress
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Company Website: <http://www.gwu.edu>

Country of Origin: [United States](#)

Internet Exchanges: 1

Prefixes Originated (all): 6
Prefixes Originated (v4): 4
Prefixes Originated (v6): 2

Prefixes Announced (all): 6
Prefixes Announced (v4): 4
Prefixes Announced (v6): 2

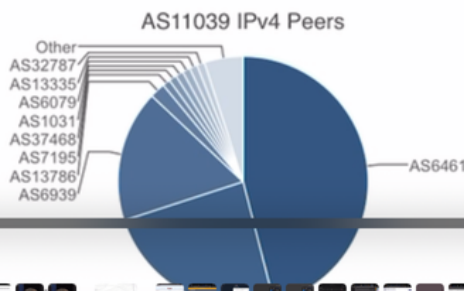
RPKI Originated Valid (all): 5
RPKI Originated Valid (v4): 3
RPKI Originated Valid (v6): 2

RPKI Originated Invalid (all): 0
RPKI Originated Invalid (v4): 0
RPKI Originated Invalid (v6): 0

BGP Peers Observed (all): 237
BGP Peers Observed (v4): 234
BGP Peers Observed (v6): 172

IPs Originated (v4): 131,584
AS Paths Observed (v4): 114,417
AS Paths Observed (v6): 43,493

Average AS Path Length (all): 4.820
Average AS Path Length (v4): 4.972
Average AS Path Length (v6): 4.421





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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
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AS11039 announces bogons.

Prefix		Description		Visibility
64.124.161.16/30				0% 1/645
65.211.74.53/32				0% 1/645
107.1.155.172/30				0% 1/645
107.17.55.239/32				0% 1/645
107.17.56.239/32				0% 1/645
128.164.0.0/16	✓	The George Washington University		100% 645/645
161.253.0.0/17	✓	The George Washington University		100% 645/645
161.253.128.0/17	✓	The George Washington University		100% 645/645
172.27.62.0/23				0% 1/645

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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

AS11039 announces bogons.

Prefix		Description	Visibility
2606:69c0:5000::/36		The George Washington University	100% 620/621
2606:69c0:9000::/36		The George Washington University	100% 620/621

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 Unit Origin Routes
 NS Report
 Top Host Report
 Internet Statistics
 Looking Glass
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 Free IPv6 Tunnel
 IPv6 Certification
 IPv6 Progress
 Using Native
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4	EDGEUNO S.A		X	AS1183
5	Seabras 1 USA,		X	AS1183
6	Angola Cables		X	AS37468
7	Adylnet Telecom		X	AS28283
8	GSL Networks Pty LTD		X	AS137409
9	Vocus Connect International Backbone		X	AS4826
10	Unitas Global		X	AS1828
11	RCN		X	AS6079
12	Charter Communications		X	AS20115
13	Oath Holdings Inc.		X	AS10310
14	Akamai Technologies, Inc.		X	AS32787
15	Administracion Nacional de Telecomunicaciones		X	AS6057
16	F5 Networks SARL		X	AS35280
17	SG.GS		X	AS24482
18	Beanfield Technologies Inc.		X	AS21949
19	NetActuate, Inc		X	AS36236
20	123.Net, Inc.		X	AS12129
21	Misaka Network, Inc.		X	AS917
22	GoCodeIT Inc		X	AS835
23	Atlantic Metro Communications II, Inc.		X	AS29838
24	Cloudflare, Inc.		X	AS13335
25	i3D.net B.V		X	AS49544
26	Google LLC		X	AS15169
27	BroadbandONE, LLC		X	AS19151
28	Ooredoo Q.S.C.		X	AS8781
29	Parallax		X	AS26930
30	Limelight Networks, Inc.		X	AS22822
31	APNIC ASN block		X	AS45758
32	Airtek Solutions C.A.		X	AS61461
33	TierPoint, LLC		X	AS17378
34	Equinix (EMEA) Acquisition Enterprises B.V.		X	AS15830
35	ERC Broadband		X	AS64213
36	Pilot Fiber, Inc.		X	AS46450
37	Crown Castle Fiber LLC		X	AS46887
38	Planters Communications, LLC		X	AS26744
39	US Signal Company, L.L.C.		X	AS26554
40	Microsoft Corporation		X	AS8075
41	Sony Interactive Entertainment LLC		X	AS33353
42	viewqwest Pte Ltd		X	AS18106
43	SoftLayer Technologies Inc.		X	AS36351



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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

Rank	Description	IPv4	Peer
1	Hurricane Electric LLC	X	AS6939
2	The George Washington University	X	AS4901
3	Zayo Bandwidth	X	AS6461
4	EDGEUNO S.A.S	X	AS7195
5	Seabras 1 USA, LLC	X	AS13786
6	Angola Cables	X	AS37468
7	Adylnet Telecom	X	AS28283
8	GSL Networks Pty LTD	X	AS137409
9	Vocus Connect International Backbone	X	AS4826
10	Unitas Global	X	AS1828
11	RCN	X	AS6079
12	Charter Communications	X	AS20115
13	Oath Holdings Inc.	X	AS10310
14	Akamai Technologies, Inc.	X	AS32787
15	Administracion Nacional de Telecomunicaciones	X	AS6057
16	F5 Networks SARL	X	AS35280
17	SG.GS	X	AS24482
18	Beanfield Technologies Inc.	X	AS21949
19	NetActuate, Inc	X	AS36236
20	123.Net, Inc.	X	AS12129
21	Misaka Network, Inc.	X	AS917
22	GoCodeIT Inc	X	AS835
23	Atlantic Metro Communications II, Inc.	X	AS29838
24	Cloudflare, Inc.	X	AS13335
25	i3D.net B.V	X	AS49544
26	Google LLC	X	AS15169
27	BroadbandONE, LLC	X	AS19151
28	Correos O.S.C	X	AS8781
29	Paralax	X	AS20930



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1	Zayo Bandwidth	X	AS6461
2	The George Washington University	X	AS4901
3	Hurricane Electric LLC	X	AS6939
4	Seabras 1 USA, LLC	X	AS13786
5	EDGEUNO S.A.S	X	AS7195
6	Angola Cables	X	AS37468
7	PEER 1031 LLC		AS1031
8	RCN	X	AS6079
9	Cloudflare, Inc.	X	AS13335
10	Akamai Technologies, Inc.	X	AS32787
11	Vocus Connect International Backbone	X	AS4826
12	SAMM TECNOLOGIA E TELECOMUNICACOES S.A		AS262585
13	ELETRONET S.A.	X	AS267613
14	Unitas Global	X	AS1828
15	Voxility LLP		AS3223
16	GSL Networks Pty LTD	X	AS137405
17	Charter Communications	X	AS20115
18	F5 Networks SARL	X	AS35280
19	Adylnet Telecom	X	AS28283
20	SG.GS	X	AS24482
21	WNET TELECOM USA Corp.	X	AS1820
22	Incapsula Inc	X	AS19551
23	Crown Castle Fiber LLC	X	AS46887
24	Beanfield Technologies Inc.	X	AS21949
25	123.Net, Inc.	X	AS12129
26	US Signal Company, L.L.C.	X	AS26554
27	LUMOS Networks, Inc.	X	AS7795
28	TierPoint LLC	X	AS17378
29	Comcast (CME) Acquisition Enterprises B.V.	X	AS13630

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55	GlobeNet Cabos	S.A.S.			
56	EARTH TELECOM	D.			
57	TDS TELECOM			X	AS4181
58	EPB Fiber Optics			X	AS26827
59	Zenlayer Inc			X	AS4229
60	Atlantech Online, Inc.			X	AS7784
61	Akamai International B.V.			X	AS20940
62	Deteque			X	AS54054
63	Uniti Fiber Holdings Inc.			X	AS13760
64	Conversant, Inc.			X	AS25751
65	HERE Global BV			X	AS1248
66	Netflix Streaming Services Inc.			X	AS2906
67	CIRA Canadian Internet Registration Authority Autorit Canadienne pour les enregistrements Internet			X	AS394354
68	IX Reach Ltd			X	AS4455
69	GoDaddy.com, LLC			X	AS26496
70	PT Telekomunikasi Indonesia				AS7713
71	PhoenixNAP LLC			X	AS12189
72	CTS Communications Corp			X	AS19653
73	G-Core Labs S.A.			X	AS199524
74	Apple Inc.			X	AS714
75	Rackdog, LLC			X	AS398465
76	FirstDigital Communications, LLC			X	AS29933
77	Square, Inc.			X	AS15211
78	BrightRidge			X	AS22987
79	Facebook, Inc.			X	AS32934
80	VeriSign Infrastructure & Operations			X	AS7342
81	Globe Telecoms			X	AS4775
82	Ting Fiber Inc.			X	AS32133
83	Acronis			X	AS53991
84	SAS INTERCLOUD			X	AS197981
85	Team Cymru Inc.			X	AS23028
86	VMWare, Inc.			X	AS53766
87	Rumble USA Inc.			X	AS399647
88	ACEVILLE PTE.LTD.			X	AS139341
89	Whatbox Inc.			X	AS394151
90	Wikimedia Foundation Inc.			X	AS14907
91	Wintek Corporation			X	AS11114
92	PBW Communications, LLC			X	AS16409
93	P Foundation			X	AS399728

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14	Akamai Technologies, Inc.		X	AS32755
15	Administracion Nacional de Telecomunicaciones		X	AS6057
16	F5 Networks SARL		X	AS35280
17	SG.GS		X	AS24482
18	Beanfield Technologies Inc.		X	AS21949
19	NetActuate, Inc		X	AS36236
20	123.Net, Inc.		X	AS12129
21	Misaka Network, Inc.		X	AS917
22	GoCodeIT Inc		X	AS835
23	Atlantic Metro Communications II, Inc.		X	AS29838
24	Cloudflare, Inc.		X	AS13335
25	i3D.net B.V		X	AS49544
26	Google LLC		X	AS15169
27	BroadbandONE, LLC		X	AS19151
28	Ooredoo Q.S.C.		X	AS8781
29	Parallax		X	AS26930
30	Limelight Networks, Inc.		X	AS22822
31	APNIC ASN block		X	AS45758
32	Airtek Solutions C.A.		X	AS61461
33	TierPoint, LLC		X	AS17378
34	Equinix (EMEA) Acquisition Enterprises B.V.		X	AS15830
35	ERC Broadband		X	AS64213
36	Pilot Fiber, Inc.		X	AS46450
37	Crown Castle Fiber LLC		X	AS46887
38	Planters Communications, LLC		X	AS26744
39	US Signal Company, L.L.C.		X	AS26554
40	Microsoft Corporation		X	AS8075
41	Sony Interactive Entertainment LLC		X	AS33353
42	Viewqwest Pte Ltd		X	AS18106
43	SoftLayer Technologies Inc.		X	AS36351
44	OneCleveland		X	AS19009
45	Packet Host, Inc.		X	AS54825
46	LUMOS Networks, Inc.		X	AS7795
47	PenTeleData Inc.		X	AS3737
48	TeraSwitch Networks Inc.		X	AS20326
49	Allied Telecom Group, LLC		X	AS22925
50	WoodyNet, Inc.		X	AS42
51	Transtelco Inc		X	AS32098
52	The St. Paul Group		X	AS40217

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34	Equinix (EMEA)			
35	ERC Broadband			
36	Pilot Fiber, Inc.		X	AS46450
37	Crown Castle Fiber LLC		X	AS46887
38	Planters Communications, LLC		X	AS26744
39	US Signal Company, L.L.C.		X	AS26554
40	Microsoft Corporation		X	AS8075
41	Sony Interactive Entertainment LLC		X	AS33353
42	Viewqwest Pte Ltd		X	AS18106
43	SoftLayer Technologies Inc.		X	AS36351
44	OneCleveland		X	AS19009
45	Packet Host, Inc.		X	AS54825
46	LUMOS Networks, Inc.		X	AS7795
47	PenTeleData Inc.		X	AS3737
48	TeraSwitch Networks Inc.		X	AS20326
49	Allied Telecom Group, LLC		X	AS22925
50	WoodyNet, Inc.		X	AS42
51	Transtelco Inc		X	AS32098
52	The St. Paul Group		X	AS40217
53	Psychz Networks		X	AS40676
54	COLT Technology Services Group Limited		X	AS8220
55	GlobeNet Cabos Submarinos Colombia, S.A.S.		X	AS52320
56	EARTH TELECOMMUNICATION (Pvt) LTD.		X	AS58715
57	TDS TELECOM		X	AS4181
58	EPB Fiber Optics		X	AS26827
59	Zenlayer Inc		X	AS4229
60	Atlantech Online, Inc.		X	AS7784
61	Akamai International B.V.		X	AS20940
62	Deteque		X	AS54054
63	Uniti Fiber Holdings Inc.		X	AS13760
64	Conversant, Inc.		X	AS25751
65	HERE Global BV		X	AS1248
66	Netflix Streaming Services Inc.		X	AS2906
67	CIRA Canadian Internet Registration Authority Autorit Canadienne pour les enregistrements Internet		X	AS394354
68	IX Reach Ltd		X	AS4455
69	GoDaddy.com, LLC		X	AS26496
70	PT Telekomunikasi Indonesia			AS7713
71	PhoenixNAP LLC		X	AS12189
72	CTS Communications Corp		X	AS19653

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86	VMWare, Inc.		X	AS399641
87	Rumble USA Inc.		X	AS139341
88	ACEVILLE PTE.LTD.		X	AS394151
89	Whatbox Inc.		X	AS14907
90	Wikimedia Foundation Inc.		X	AS11114
91	Wintek Corporation		X	AS16409
92	PBW Communications, LLC		X	AS399728
93	P Foundation		X	AS36692
94	Cisco OpenDNS, LLC		X	AS20021
95	Ntirety, Inc.		X	AS40428
96	Pandora Media, LLC		X	AS21928
97	T-Mobile USA, Inc.		X	AS46489
98	Twitch Interactive Inc.		X	AS33604
99	Burlington Telecom		X	AS62296
100	Vital Network Group, LLC		X	AS29748
101	Quality Technology Services, LLC		X	AS15133
102	Edgecast Inc.		X	AS60171
103	AFR-IX TELECOM SAU		X	AS12200
104	Rackspace Hosting		X	AS22697
105	Roblox		X	AS15695
106	Expereo International BV		X	AS1820
107	WNET TELECOM USA Corp.		X	AS394111
108	Foothills Rural Telephone Cooperative Corporation, Inc.		X	AS59865
109	Ivent Mobile bv		X	AS54113
110	Fastly, Inc.		X	AS14537
111	Continent 8 LLC		X	AS32590
112	Valve Corporation		X	AS393713
113	All Points Broadband		X	AS13768
114	Aptum Technologies		X	AS395354
115	Starry, Inc.		X	AS16552
116	Tiggee LLC		X	AS19750
117	Criteo Corp.		X	AS32478
118	IT Vocal LLC		X	AS14361
119	HopOne Internet Corporation		X	AS393225
120	ARIN Operations		X	AS6204
121	INTERKVM HOST SRL		X	AS18888
122	ZILLOW, INC.		X	AS3653
123	House of Ben Avraham LLC		X	AS396296
124	Acreto		X	

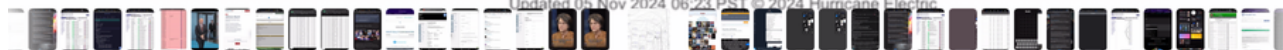




111	Continent 8 LLC		X	AS14552
112	Valve Corporation		X	AS32590
113	All Points Broadband		X	AS393713
114	Aptum Technologies		X	AS13768
115	Starry, Inc.		X	AS395354
116	Tiggee LLC		X	AS16552
117	Criteo Corp.		X	AS19750
118	IT Vocal LLC		X	AS32478
119	HopOne Internet Corporation		X	AS14361
120	ARIN Operations		X	AS393225
121	INTERKVM HOST SRL		X	AS6204
122	ZILLOW, INC.		X	AS18888
123	House of Ben Avraham LLC		X	AS3653
124	Acreto		X	AS396296
125	Cisco Systems, Inc.		X	AS55219
126	Comcast Cable Communications, LLC		X	AS7922
127	Telecom Algeria		X	AS36947
128	Keepit A/S		X	AS33412
129	Zoom Video Communications, Inc		X	AS30103
130	Hosted Backbone		X	AS14713
131	Oracle Corporation		X	AS31898
132	OVH SAS		X	AS16276
133	QuickPacket, LLC		X	AS46261
134	Bytedance Inc.		X	AS396986
135	OSNET Wireless		X	AS21559
136	APPRISS INC		X	AS19783
137	Education Networks of America		X	AS11686
138	Salesforce.com, Inc.		X	AS14340
139	LeaseWeb Network B.V.		X	AS16265
140	Knoxville Utilities Board		X	AS33566
141	Incapsula Inc		X	AS19551
142	Qwilt Inc.		X	AS20253
143	HypeStatus Inc		X	AS998
144	Hughes Network Systems, LLC		X	AS6621
145	Quantcast Corporation		X	AS27281
146	GCR Company/GCR Online		X	AS22299
147	e-planning		X	AS399668
148	Quantum Internet Services, Inc.		X	AS7055
149	Ahrefs Pte Ltd		X	AS140577
150	Chilliput Inc		X	AS26459
151	WhiteSky Communications, LLC		X	AS62887



134	Bytedance Inc.		X	AS19783
135	OSNET Wireless		X	AS11686
136	APPRISS INC		X	AS14340
137	Education Networks of America		X	AS16265
138	Salesforce.com, Inc.		X	AS33566
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140	Knoxville Utilities Board		X	AS20253
141	Incapsula Inc		X	AS998
142	Qwilt Inc.		X	AS6621
143	HypeStatus Inc		X	AS27281
144	Hughes Network Systems, LLC		X	AS22299
145	Quantcast Corporation		X	AS39966
146	GCR Company/GCR Online		X	AS7055
147	e-planning		X	AS140577
148	Quantum Internet Services, Inc.		X	AS36459
149	Ahrefs Pte Ltd		X	AS62887
150	GitHub, Inc.		X	AS267613
151	WhiteSky Communications, LLC.		X	AS24429
152	ELETRONET S.A.		X	AS397849
153	Zhejiang Taobao Network Co.,Ltd		X	AS398334
154	ZOHO		X	AS2635
155	Tekvizion PVS, Inc.		X	AS57976
156	Automattic, Inc		X	AS13984
157	Blizzard Entertainment, Inc		X	AS16559
158	SD Data Center		X	AS132203
159	REALCONNECT 01		X	AS10297
160	Tencent Building, Kejizhongyi Avenue		X	AS62955
161	eNET Inc.		X	AS209453
162	eBay, Inc		X	AS14593
163	GANDI SAS		X	AS54994
164	Space Exploration Technologies Corporation		X	AS53334
165	Metaverse Limited.		X	AS26667
166	Total Uptime Technologies, LLC		X	AS6507
167	The Rubicon Project, Inc.		X	AS42473
168	Riot Games, Inc		X	AS32244
169	ANEXIA Internetdienstleistungs GmbH		X	AS57695
170	Liquid Web, L.L.C		X	AS138915
171	Misaka Network, Inc.		X	
172	Kaopu Cloud HK Limited		X	



136	APPRISS INC		X	AS19783
137	Education Networks of America		X	AS11686
138	Salesforce.com, Inc.		X	AS14340
139	LeaseWeb Network B.V.		X	AS16265
140	Knoxville Utilities Board		X	AS33566
141	Incapsula Inc		X	AS19551
142	Qwilt Inc.		X	AS20253
143	HypeStatus Inc		X	AS998
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146	GCR Company/GCR Online		X	AS22299
147	e-planning		X	AS399666
148	Quantum Internet Services, Inc.		X	AS7055
149	Ahrefs Pte Ltd		X	AS140577
150	GitHub, Inc.		X	AS36459
151	WhiteSky Communications, LLC.		X	AS62887
152	ELETRONET S.A.		X	AS267613
153	Zhejiang Taobao Network Co.,Ltd		X	AS24429
154	ZOHO		X	AS397849
155	Tekvizion PVS, Inc.		X	AS398334
156	Automattic, Inc		X	AS2635
157	Blizzard Entertainment, Inc		X	AS57976
158	SD Data Center		X	AS13984
159	REALCONNECT 01		X	AS16559
160	Tencent Building, Kejizhongyi Avenue		X	AS132203
161	eNET Inc.			AS10297
162	eBay, Inc		X	AS62955
163	GANDI SAS		X	AS209453
164	Space Exploration Technologies Corporation		X	AS14593
165	Metaverse Limited.		X	AS54994
166	Total Uptime Technologies, LLC		X	AS53334
167	The Rubicon Project, Inc.		X	AS26667
168	Riot Games, Inc		X	AS6507
169	ANEXIA Internetdienstleistungs GmbH		X	AS42473
170	Liquid Web, L.L.C		X	AS32244
171	Misaka Network, Inc.		X	AS57695



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5	Seabras 1 USA, LLC	X	AS13786
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7	Adylnet Telecom	X	AS28283
8	GSL Networks Pty LTD	X	AS137409
9	Vocus Connect International Backbone	X	AS4826
10	Unitas Global	X	AS1828
11	RCN	X	AS6079
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21	Misaka Network, Inc.	X	AS917
22	GoCodeIT Inc	X	AS835
23	Atlantic Metro Communications II, Inc.	X	AS29838
24	Cloudflare, Inc.	X	AS13335
25	i3D.net B.V	X	AS49544
26	Google LLC	X	AS15169
27	BroadbandONE, LLC	X	AS19151
28	Correos O.S.C	X	AS8781
29	Paralax	X	AS20930

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236	BIZNET NETWORK			
237	Columbus Com			
238	CABLECOLOR S.A.		X	AS27884
239	Office des Postes et Telecommunications New-Caledonia		X	AS18200
240	MobiCom Corporation		X	AS55805
241	DIL Technology Limited		X	AS210021
242	Berytech SCAL		X	AS15739
243	Celcom Axiata Berhad		X	AS10030
244	Kurdistan Net Company for Computer and Internet Ltd.		X	AS206206
245	APNIC ASN block		X	AS17882
246	Clear Path Networks Inc			AS45754
247	Vodafone Qatar P.Q.S.C		X	AS48728
248	GEMNET LLC		X	AS45204
249	Atom Myanmar Limited		X	AS133385
250	JSC Silknet		X	AS35805
251	DIL Technology Limited		X	AS211090
252	Palestine Telecommunications Company (PALTEL)		X	AS12975
253	Cable Onda		X	AS18809
254	TOT Public Company Limited		X	AS38040
255	ASIACELL COMMUNICATIONS PJSC			AS51684
256	Unified National Networks			AS10094
257	America Movil Peru S.A.C.		X	AS12252
258	Workonline Communications(Pty) Ltd		X	AS37271
259	Orange S.A.		X	AS5511
260	Faculty of Computer Science and Engineering - Ss. Cyril and Methodius University in Skopje			AS203522
261	BBIX, Inc		X	AS37904
262	Comcast Cable Communications, LLC		X	AS21508
263	Responsible Internet Sustainability Effort		X	AS141013
264	APNIC ASN block		X	AS23676
265	DJIBOUTI TELECOM S.A.		X	AS30990
266	AMX Argentina S.A.		X	AS19037
267	NTT America, Inc.		X	AS2914
268	TATA COMMUNICATIONS (AMERICA) INC		X	AS6453
269	Euroweb Romania S.R.L.		X	AS6663
270	PJSC Rostelecom		X	AS12389
271	Telstra Global		X	AS4637
272	Techtel LMDS Comunicaciones Interactivas S.A.		X	AS11664
273	Sify Limited		X	AS9583
274	Hurricane Electric LLC		X	AS6939



203	Magticom Ltd.	November 5, 2024 10:08 PM		X	AS3131
204	PenTeleData Inc.			X	AS3131
205	University of Maine System			X	AS557
206	Windstream Communication Ltd			X	AS139005
207	Ooredoo Maldives Plc			X	AS55944
208	Binariang Berhad			X	AS9534
209	APNIC ASN block			X	AS55943
210	irix			X	AS131330
211	Digicel Jamaica			X	AS40786
212	Digicel Trinidad and Tobago Ltd.			X	AS27800
213	Sinal Br Telecom Ltda			X	AS262761
214	Tashi InfoComm Limited			X	AS38740
215	UNIFIQUE TELECOMUNICACOES S/A			X	AS28343
216	TurkNet Iletisim Hizmetleri A.S.			X	AS12735
217	Silica Networks Argentina S.A.			X	AS7049
218	Bangladesh Submarine Cable Company Limited (BSCCL)			X	AS132602
219	SERVICIOS DE TELECOMUNICACIONES SETEL S.A. (XTRIM EC)			X	AS14522
220	VAINAVI INDUSTRIES LTD, INTERNET SERVICE PROVIDER, INDIA			X	AS45582
221	Hoshin Multimedia Center Inc.			X	AS9416
222	Transworld Associates (Pvt.) Ltd.			X	AS38193
223	Al Lawn Al Akhdar International Company for Communications and Information Technology Ltd.			X	AS57324
224	NATIONAL MOBILE TELECOMMUNICATIONS COMPANY K.S.C.P.			X	AS29357
225	Zain Omantel International FZ-LLC			X	AS59605
226	ALGAR TELECOM S/A			X	AS16735
227	Grande Communications Networks, LLC			X	AS7459
228	Albanian Satellite Communications sh.p.k.			X	AS47394
229	Aeprovi			X	AS27814
230	Century Telecom Ltda			X	AS21574
231	DOMINICAN CABLE GROUP DCG, S.R.L.			X	AS64126
232	Netonline Bilisim Sirketi LTD			X	AS44558
233	OOREDOO MYANMAR			X	AS132167
234	CORPORACION NACIONAL DE TELECOMUNICACIONES - CNT EP			X	AS28006
235	Allay Nawroz Telecom Company for Communication/Ltd.			X	AS21277
236	BIZNET NETWORKS			X	AS17451
237	Columbus Communications Grenada Ltd.			X	AS46650
238	CABLECOLOR S.A.			X	AS27884



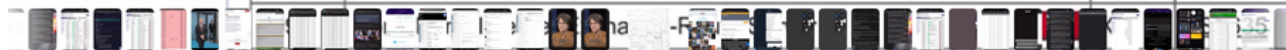
343	Tele2 Sverige AB	🇸🇪	X	AS6774
344	IELO-LIAZO SE	🇵🇹	X	AS52376
345	Belgacom International Carrier Services SA	🇧🇪	X	AS58453
346	CABASE Camara Arg de Base de Datos y Serv en Linea	🇦🇷	X	AS3214
347	China Mobile International Limited	🇨🇳	X	AS64289
348	xTom GmbH	🇩🇪	X	AS6079
349	Macarne LLC	🇺🇸	X	AS50869
350	RCN	🇺🇸	X	AS57866
351	IPng Networks GmbH	🇨🇭	X	AS701
352	Fusix Networks B.V.	🇳🇱	X	AS52025
353	Verizon Business	🇺🇸	X	AS28329
354	ParadoxNetworks Limited	🇬🇧	X	AS19754
355	Megatelecom Telecomunicacoes Ltda	🇧🇷	X	AS39588
356	The Fusion Network, LLC	🇺🇸	X	AS20495
357	Boomerang Communications LLC	🇺🇸	X	AS33490
358	We Dare B.V.	🇳🇱	X	AS17676
359	Comcast Cable Communications, LLC	🇺🇸	X	AS47147
360	SoftBank Corp.	🇯🇵	X	AS61568
361	ANEXIA Internetdienstleistungs GmbH	🇦🇹	X	AS48362
362	ALOO TELECOM - FSF TECNOLOGIA SA	🇧🇷	X	AS18881
363	Stadtwerke Feldkirch	🇦🇹	X	AS63956
364	TELEFNICA BRASIL S.A	🇧🇷	X	AS2518
365	APNIC ASN block	🇺🇸	X	AS61138
366	BIGLOBE Inc.	🇯🇵	X	AS39351
367	Zappie Host LLC	🇺🇸	X	AS12637
368	31173 Services AB	🇸🇪	X	AS55850
369	SEEWEB s.r.l.	🇮🇹	X	AS47692
370	APNIC ASN block	🇺🇸	X	AS8359
371	Nessus GmbH	🇦🇹	X	AS15000
372	MTS PJSC	🇷🇺	X	AS60171
373	Data-Beam Business Solution	🇵🇭	X	AS24115
374	AFR-IX TELECOM SAU	🇸🇦	X	AS7575
375	Equinix	🇹🇷	X	AS5713
376	Australian Academic and Research Network (AARNet)	🇦🇺	X	AS8708
377	Telkom SA Ltd.	🇿🇦	X	AS20061
378	DIGI ROMANIA S.A.	🇷🇴	X	AS47734
379	Gulf Bridge International Inc.	🇸🇦	X	AS9680
380	Telecom IT Solutions SRL	🇷🇴	X	AS37497
381	HiNet Service Center in U.S.A	🇺🇸	X	AS33008
382	Network Platforms (PTY) LTD	🇿🇦	X	AS33008
383	APNIC ASN block	🇺🇸	X	AS33008

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271	Telstra Global		X	AS11664
272	Techtel LMDS Comunicaciones Interactivas S.A.		X	AS11664
273	Sify Limited		X	AS9583
274	Hurricane Electric LLC		X	AS6939
275	PCCW Global, Inc.		X	AS3491
276	Comcast Cable Communications, LLC		X	AS33489
277	Serbian Open Exchange DOO		X	AS13004
278	US Internet Corp			AS10242
279	TATA Communications formerly VSNL is Leading ISP		X	AS4755
280	DOLPHIN TELECOMMUNICATION LIMITED			AS37613
281	Comcast Cable Communications, LLC		X	AS22258
282	Comcast Cable Communications, LLC		X	AS7922
283	Zayo Bandwidth		X	AS6461
284	RETN Limited		X	AS9002
285	Comcast Cable Communications, LLC		X	AS33660
286	Sri Lanka Telecom PLC, GLobal Peering		X	AS45489
287	Comcast Cable Communications, LLC		X	AS7016
288	Sportradar AG			AS51776
289	Telemach Slovenija d.o.o.		X	AS3212
290	EDGEUNO S.A.S		X	AS7195
291	COLT Technology Services Group Limited		X	AS8220
292	TI Sparkle Turkey Telekomunikasyon A.S		X	AS47123
293	JasTel Network International Gateway		X	AS45629
294	GTT		X	AS4436
295	meerfarbig GmbH & Co. KG		X	AS34549
296	F5 Networks SARL		X	AS35280
297	Liberty Global B.V.		X	AS6830
298	Vodafone Group PLC		X	AS1273
299	Hong Kong Internet Exchange-Route Server 1		X	AS4635
300	iFog GmbH		X	AS34927
301	Init7 (Switzerland) Ltd.		X	AS13030
302	Core-Backbone GmbH		X	AS33891
303	SuperCell ISP LTD			AS207811
304	IP-Max SA		X	AS25091
305	Seabras 1 USA, LLC		X	AS13786
306	APNIC ASN block		X	AS137405
307	TPG Telecom Limited		X	AS7545
308	GlobeNet Cabos Submarinos Colombia, S.A.S.		X	AS52320
309	FLAG TELECOM UK LIMITED		X	AS15412



260	Faculty of Commerce - Ss. Cyril and Methodius University in Sofia			
261	BBIX, Inc		X	AS37904
262	Comcast Cable Communications, LLC		X	AS21508
263	Responsible Internet Sustainability Effort		X	AS141013
264	APNIC ASN block		X	AS23676
265	DJIBOUTI TELECOM S.A.		X	AS30990
266	AMX Argentina S.A.		X	AS19037
267	NTT America, Inc.		X	AS2914
268	TATA COMMUNICATIONS (AMERICA) INC		X	AS6453
269	Euroweb Romania S.R.L.		X	AS6663
270	PJSC Rostelecom		X	AS12389
271	Telstra Global		X	AS4637
272	Techtel LMDS Comunicaciones Interactivas S.A.		X	AS11664
273	Sify Limited		X	AS9583
274	Hurricane Electric LLC		X	AS6939
275	PCCW Global, Inc.		X	AS3491
276	Comcast Cable Communications, LLC		X	AS33489
277	Serbian Open Exchange DOO		X	AS13004
278	US Internet Corp			AS10242
279	TATA Communications formerly VSNL is Leading ISP		X	AS4755
280	DOLPHIN TELECOMMUNICATION LIMITED			AS37613
281	Comcast Cable Communications, LLC		X	AS22258
282	Comcast Cable Communications, LLC		X	AS7922
283	Zayo Bandwidth		X	AS6461
284	RETN Limited		X	AS9002
285	Comcast Cable Communications, LLC		X	AS33660
286	Sri Lanka Telecom PLC, GLObal Peering		X	AS45489
287	Comcast Cable Communications, LLC		X	AS7016
288	Sportradar AG			AS51776
289	Telemach Slovenija d.o.o.		X	AS3212
290	EDGEUNO S.A.S		X	AS7195
291	COLT Technology Services Group Limited		X	AS8220
292	TI Sparkle Turkey Telekomunikasyon A.S		X	AS47123
293	JasTel Network International Gateway		X	AS45629
294	GTT		X	AS4436
295	meerfarbig GmbH & Co. KG		X	AS34549
296	F5 Networks SARL		X	AS35280
297	Liberty Global B.V.		X	AS6830
298	Vodafone Group PLC		X	AS1273



307	TPG Telecom L		
308	GlobeNet Cabo. S.A.S.		
309	FLAG TELECOM UK LIMITED		X AS15412
310	KDDI CORPORATION		X AS2516
311	DrukNet ISP		X AS17660
312	Internet2		X AS11164
313	NTS workspace AG		X AS15576
314	Zayo Infrastructure France SA		X AS8218
315	PowerHost Telecom SPA		X AS263237
316	NORDUnet		X AS2603
317	Dimension Data		AS3741
318	IX Reach Ltd		X AS4455
319	Fiber Telecom S.p.A.		X AS41327
320	AT&T Services, Inc.		X AS7018
321	Free Pro SAS		X AS30781
322	APNIC ASN block		X AS23764
323	TOTAL PLAY TELECOMUNICACIONES SA DE CV		X AS17072
324	GlobalConnect AB		X AS12552
325	EDGOO NETWORKS UNIPESOAAL LDA		X AS6424
326	Blix Solutions AS		X AS50304
327	Hivane Association		X AS34019
328	Iway AG		X AS8758
329	Openfactory GmbH		X AS58299
330	Singapore Telecommunications Ltd		AS7473
331	Internet Initiative Japan Inc.		X AS2497
332	CLARO S.A.		AS4230
333	Broadband Hosting B.V.		X AS20562
334	MOACK.Co.LTD		AS138195
335	IPTP LTD		X AS41095
336	Administracion Nacional de Telecomunicaciones		X AS6057
337	euNetworks GmbH		X AS13237
338	HGC Global Communications Limited		X AS9304
339	WIIT AG		X AS24961
340	Eurofiber France SAS		X AS200780
341	Hydra Communications Ltd		AS25369
342	Joint Stock Company TransTeleCom		X AS20485
343	Tele2 Sverige AB		X AS1257
344	IELO-LIAZO SERVICES SAS		X AS29075
345	Belgacom International Carrier Services SA		AS6774
346	CABASE Camara Arg de Base de Datos y Serv en Linea		AS52376

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380	Telecom IT Solu			
381	HiNet Service C			
382	Network Platforms (PTY) LTD			AS37497
383	APNIC ASN block		X	AS38008
384	GLOBALCONNECT AS		X	AS8896
385	GEANT Vereniging		X	AS21320
386	Windstream Communications LLC		X	AS7029
387	MYTEK TRADING PTY LTD			AS132825
388	Association GRIFON		X	AS204092
389	TelHi Corporation		X	AS150365
390	LWLcom GmbH		X	AS50629
391	Fiord Networks, UAB		X	AS28917
392	Viewqwest Pte Ltd		X	AS18106
393	PJSC MegaFon		X	AS31133
394	weber.digital GmbH		X	AS35710
395	NHM - S.R.L.		X	AS62275
396	Trans Union, LLC			AS19353
397	Avaloq Sourcing (Switzerland & Liechtenstein) SA			AS197312
398	CHORUS NEW ZEALAND LIMITED			AS132896
399	Internet Vikings International AB			AS51747
400	Optimizely AB		X	AS30811
401	NAVEGALO S.A.			AS28110
402	Paulus M. Hoogsteder			AS31019
403	ECi Software Solutions, Inc.			AS397076
404	ULTIMATE SOFTWARE GROUP			AS32077
405	Investec Bank Ltd			AS14516
406	Staclar Carrier Ltd.		X	AS34854
407	West263 International Limited			AS139021
408	IOPEX TECHNOLOGIES PRIVATE LIMITED			AS149622
409	maincubes one GmbH			AS214401
410	FBW NETWORKS SAS		X	AS49434
411	Municipal Network Services			AS327804
412	i2c Incorporated			AS16501
413	Genentech, Inc.			AS10725
414	xTom		X	AS6233
415				AS149648
416	Qualcomm, Inc.			AS17032
417	RACKNATION S.A.			AS264765
418	BP International Ltd			AS15753
419	ONECODE ASSETS PTY LTD		X	AS140627

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383	APNIC ASN bloc			
384	GLOBALCONN			
385	GEANT Vereniging		X	AS21320
386	Windstream Communications LLC		X	AS7029
387	MYTEK TRADING PTY LTD			AS132825
388	Association GRIFON		X	AS204092
389	TelHi Corporation		X	AS150365
390	LWLcom GmbH		X	AS50629
391	Fiord Networks, UAB		X	AS28917
392	Viewqwest Pte Ltd		X	AS18106
393	PJSC MegaFon		X	AS31133
394	weber.digital GmbH		X	AS35710
395	NHM - S.R.L.		X	AS62275
396	Trans Union, LLC			AS19353
397	Avaloq Sourcing (Switzerland & Liechtenstein) SA			AS197312
398	CHORUS NEW ZEALAND LIMITED			AS132896
399	Internet Vikings International AB			AS51747
400	Optimizely AB		X	AS30811
401	NAVEGALO S.A.			AS28110
402	Paulus M. Hoogsteder			AS31019
403	ECi Software Solutions, Inc.			AS397076
404	ULTIMATE SOFTWARE GROUP			AS32077
405	Investec Bank Ltd			AS14516
406	Staclar Carrier Ltd.		X	AS34854
407	West263 International Limited			AS139021
408	IOPEX TECHNOLOGIES PRIVATE LIMITED			AS149622
409	maincubes one GmbH			AS214401
410	FBW NETWORKS SAS		X	AS49434
411	Municipal Network Services			AS327804
412	i2c Incorporated			AS16501
413	Genentech, Inc.			AS10725
414	xTom		X	AS6233
415				AS149648
416	Qualcomm, Inc.			AS17032
417	RACKNATION S.A.			AS264763
418	BP International Ltd			AS15753
419	ONEQCODE ASSETS PTY LTD		X	AS140627
420	Arcade Solutions AG		X	AS51873
421	Suite 1201, Chater House			AS45640
422	USC / UFMG PEERING Research Testbed			AS47065



454	Etihad Etisalat			AS48231
455	Adaptive Data Networks			AS20951
456	Colonial IU 20			AS16478
457	Jori Vanneste		X	AS212123
458	PrimeXM Networks			AS40809
459	Voxtelesys LLC			AS400011
460	CommandLink, LLC			AS396970
461	Ministry of Education			AS24318
462	Specialized Technical Services (STS) Co.Ltd			AS209029
463	AbbVie, Inc.			AS133013
464	Continent 8 LLC			AS14537
465	Lambda Creative MB			AS35384
466	VTX Services SA			AS12350
467	Vinted, UAB			AS59874
468	Virtual Technologies & Solutions		X	AS37721
469	BP Australia			AS55504
470	TELY Ltda.		X	AS53087
471	Online Computer Library Center			AS4373
472	Corning Incorporated			AS16638
473	Digital Fortress			AS6423
474	PAR Technology Corporation			AS394705
475	DR Fortress, LLC			AS40300
476	KLDiscovery Ontrack, LLC			AS27401
477	AVALOQ SOURCING ASIA PACIFIC (SINGAPORE) PTE. LTD.			AS138626
478	Payments Network Malaysia Sdn Bhd			AS139830
479	A2B IP B.V.		X	AS51088
480	Iraq Electronic Gate for Financial Services Co. Ltd			AS205470
481	LoadEdge Limited			AS32708
482	KLDiscovery Ontrack Sp. z o.o.			AS43570
483	WNB A/S		X	AS207934
484	THE HUT.COM LIMITED			AS197651
485	Pitney Bowes Incorporated			AS11086
486	DoubleVerify, Inc.			AS36062
487	GTT Communications Inc.		X	AS286
488	Fortis Clearing Chicago LLC			AS26052
489	Bart Vrancken trading as MLaB		X	AS41047
490	Webhost Limited			AS34738
491	Ahnlab, Inc.			AS17876
492	Kabel-TV Lampert GmbH & Co KG		X	AS59890
493	Catalyst Net Ltd			AS24226
494	DNB Nordic AB			AS269



419	ONECODE AS		X	AS51873
420	Arcade Solutions AG			AS45640
421	Suite 1301, Chater House			AS47065
422	USC / UFMG PEERING Research Testbed			AS50763
423	MCKAYCOM LTD		X	AS21651
424	Thrivent Financial for Lutherans			AS23145
425	IBM		X	AS47160
426	MOJI SAS			AS18789
427	Main Line Health, Inc.			AS46621
428	Broome - Tioga BOCES			AS15623
429	Cyberlink AG		X	AS15989
430	Intercontinental Exchange Inc.			AS31369
431	National Social Security Institute			AS140731
432	TOHU Public Internet		X	AS5408
433	National Infrastructures for Research and Technology S.A.			AS198150
434	SIACOM JSC		X	AS209295
435	Ambientia Group Oy			AS53193
436	Eliane S/A Revestimentos Cermicos			AS11178
437	AccessPlus Communications, Inc.		X	AS18833
438	American Specialty Health Plans of CA, Inc.			AS137973
439	HONG KONG INTERBANK CLEARING LIMITED			AS53871
440	Deltek, Inc.			AS56665
441	Proximus Luxembourg S.A.		X	AS42875
442	National Car Parks Limited			AS13798
443	L'Oreal USA			AS199936
444	Netzwerke GmbH		X	AS33164
445	Iristel Inc			AS36406
446	United States Fire Insurance Company			AS2639
447	ZOHO			AS17289
448	ULTIMATE SOFTWARE GROUP			AS55818
449	MC-IX Matrix Internet Exchange RS-1		X	AS43937
450	Playtech Estonia OU			AS2152
451	CENIC		X	AS328867
452	Corebach Backbone SARL			AS17350
453	Moody's Corp.			AS48237
454	Etihad Etisalat, a joint stock company			AS23367
455	Adaptive Data Networks, LLC		X	AS16478
456	Colonial IU 20			AS212123
457	Jori Vanneste		X	





486	DoubleVerify, Inc.			AS26052
487	GTT Communications Inc.			AS2386
488	Fortis Clearing Chicago LLC			AS26052
489	Bart Vrancken trading as MLaB		X	AS41047
490	Webhost Limited			AS34738
491	Ahnlab, Inc.			AS17876
492	Kabel-TV Lampert GmbH & Co KG		X	AS59890
493	Catalyst.Net Ltd			AS24226
494	DND Nordic AB			AS8289
495	PureVoltage Hosting Inc.			AS13830
496	Intermedia.net, Inc.			AS16406
497	Consumer Cellular Inc.			AS396875
498	CONCENTRIX SERVICES BULGARIA EOOD			AS200361
499	TELUS Communications Inc.		X	AS852
500	Moneris Solutions Corporation			AS62881
501	Kerfuffle, LLC		X	AS35008
502	Micron21 Datacentre Pty Ltd		X	AS38880
503	LexisNexis Risk Solutions FL Inc.			AS46411
504	Infinite Campus, Incorporated			AS23046
505	The Penguin Collective Ltd		X	AS48297
506	QUALCOMM (UK) LIMITED			AS60933
507	BANCO PATAGONIA S.A			AS265855
508	Federal Home Loan Mortgage Corporation			AS17275
509	MilkyWan Association		X	AS2027
510	AccessLine Communications Corp.			AS20385
511	Laboratory Corporation of America			AS53768
512	Gameforge 4D GmbH			AS47195
513	Razorblue Ltd		X	AS15692
514	Universal Layer LLC			AS399532
515	UnitedCloud			AS396223
516	Dickinson Financial Corporation			AS14582
517	LivePerson, Inc.			AS11054
518	MainStreaming SpA		X	AS51185
519	Central Susquehanna Intermediate Unit			AS46362
520	The Patent Office			AS9011
521	tyntec GmbH			AS43566
522	ULTIMATE SOFTWARE GROUP			AS26158
523	MYOB Australia Pty Ltd			AS135358
524	Northeast Georgia Medical Center, Inc.			AS21673
525	Bigcommerce Inc.			AS399566



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AS157706

554	MONEXT SAS			
555	Magna International Inc.			
556	Zoom Video Communications, Inc			AS30103
557	KINX			AS9957
558	C3 SIA		X	AS39626
559	Host Universal Pty Ltd		X	AS136557
560	PowerSerg Data Systems Inc			AS400566
561	QUALYS, Inc.			AS27385
562	NETWORK INNOVATIONS, LLC		X	AS53828
563	Avago Technologies U.S. Inc.			AS19637
564	eNetworks cc			AS32653
565	TekSavvy Solutions, Inc.		X	AS5645
566	area-7 IT-Services GmbH		X	AS60150
567	UAB Cgates		X	AS21412
568	LMAX Limited			AS41477
569	BDSF Technology B.V.			AS205943
570	Hoffmann - La Roche Ltd.			AS2047
571	HELLENIC EXCHANGES-ATHENS STOCK EXCHANGE S.A.			AS13038
572	AMERICAN TOWER DO BRASIL-COMUNICAO MULTIMEDIA LT			AS23106
573	Arista Networks, Inc.			AS55064
574	CONVERGENCE (GROUP NETWORKS) LIMITED			AS41811
575	VOISSNET S.A.			AS21765
576	SURF B.V.		X	AS1103
577	Centura Health Corporation			AS29711
578	Fairview Health Services			AS33274
579	MIGO TELECOM		X	AS263152
580	Miran Ltd.		X	AS41722
581	Kenya Commercial Bank Limited			AS328093
582	Cool Ideas Service Provider (Pty) Ltd			AS37680
583	Cloudflare London, LLC		X	AS209242
584	bKash Limited			AS38303
585	Panterra Networks, Inc.			AS11374
586	ALWAYS ON SAS		X	AS50628
587	Kjartan Hrafnkelsson		X	AS51019
588	i3D.net B.V		X	AS49544
589	Nevada Power Company			AS399086
590	APPLIED SYSTEMS, INC			AS25913
591	OLATHE PUBLIC SCHOOLS USD 233			AS393883
592	BSE Software GmbH		X	AS9044





519	Central Susquehanna	November 5, 2024		
520	The Patent Office	10:08 PM		
521	tyntec GmbH			AS43566
522	ULTIMATE SOFTWARE GROUP			AS26158
523	MYOB Australia Pty Ltd			AS135358
524	Northeast Georgia Medical Center, Inc.			AS21673
525	Bigcommerce Inc.			AS399566
526	NBN Co LTD			AS55834
527	ABN AMRO Clearing Bank NV			AS211269
528	CASABLANCA INT a.s.			AS15685
529	Vetta Online Ltd			X AS64073
530	Travis County, Texas			AS397965
531	Voxbone SA			AS41135
532	Ping Identity Corporation			X AS400797
533	Omer GOLGELI			X AS202365
534	Litgrid AB			AS212102
535	Raiffeisen Bank S.A.			AS38981
536	Dimension Network & Communication Limited			AS59371
537	United Rentals (North America), Inc.			AS27271
538	GleSYS AB			X AS42708
539	Mikrofinansovaya organizaciya Robocash.kz LLP			AS50756
540	Avaya Inc.			AS16466
541	Eastman Chemical Company			AS11082
542	TUFTS ASSOCIATED HEALTH PLANS, INC.			AS399314
543	GLBB Japan KK			X AS55900
544	IQVIA Holdings Inc			AS14948
545	Voitress			AS393409
546	Freifunk Essen e.V.			X AS206356
547	Falcore Investments Pty Ltd			X AS148968
548	TWL-Kom GmbH			AS9022
549	TECHIT.BE SRL			X AS213241
550	Netwerkvereniging Coloclue			X AS8283
551	Franklin Resources			AS26685
552	Eastman Chemical Company			AS11326
553	FastPix Inc.			X AS401021
554	MONEXT SAS			AS197788
555	Magna International Inc.			AS26838
556	Zoom Video Communications, Inc			AS30103
557	KINX			AS9957
558	C2 SIA			X AS39626
559	First Universal Pty Ltd			X AS113657





617	Taiwan Digital			AS200094
618	KLDiscovery Limited			AS48932
619	Saudi Arabian Airlines			AS203885
620	Societe nationale SNCF SA			AS1204
621	The State University of New York			AS64475
622	Freifunk Frankfurt am Main e.V.		X	AS263541
623	IMF NETWORK DATA LTDA - ME		X	AS8651
624	MUFG Securities EMEA PLC			AS399796
625	Novantas, Inc.			AS58057
626	Securebit AG		X	AS51786
627	Patrick Velder		X	AS1983
628	Bernalillo County			AS31554
629	LANSOFT DATA SRL		X	AS132571
630	Euronet Services India Pvt Ltd			AS26362
631	Travis Credit Union			AS17163
632	Great American Insurance Company			AS1267
633	WIND TRE S.P.A.		X	AS34224
634	Neterra Ltd.			AS39122
635	Blacknight Internet Solutions Limited		X	AS137445
636	APNIC ASN block			AS7483
637	APNIC ASN block			AS29504
638	Freenet Liberec, z.s.		X	AS198032
639	Cambridge Assessment			AS213125
640	The National Health Service of Ukraine			AS30600
641	Metronet		X	AS6720
642	Magistrat der Stadt Wien, Magistratsabteilung 01			AS27647
643	Weebly, Inc.			AS211964
644	WEBHELP CAGRI MERKEZI ve MUSTERI HIZMETLERI A.S			AS57463
645	NetIX Communications JSC		X	AS56307
646	ac3, Australian Centre for Advanced Computing and Communications			AS5398
647	AS5398 SA		X	AS32437
648	EDGECONNECT LEGACY			AS40680
649	Protocol Labs		X	AS59414
650	cloudscale.ch AG		X	AS48919
651	UACITY Ltd.		X	AS12179
652	Unitas Global			AS48314
653	Michael Sebastian Schinzel trading as IP-Projects GmbH & Co. KG			AS329035
654	Telsense			





587	Kjartan Hrafnk		X	AS49544
588	i3D.net B.V			AS39908
589	Nevada Power Company			AS25913
590	APPLIED SYSTEMS, INC			AS39388
591	OLATHE PUBLIC SCHOOLS USD 233			AS9044
592	BSE Software GmbH		X	AS10584
593	TradeWeb, LLC			AS60100
594	VISTA BANK (ROMANIA) S.A.			AS7941
595	Internet Archive			AS39425
596	Tech Futures Interactive Inc.		X	AS11015
597	Texas Children's Hospital			AS21631
598	Aleksandr Muravja		X	AS53595
599	Oshkosh Corporation			AS17802
600	Macquarie Bank			AS46158
601	OCM BOCES			AS39730
602	Eastman Chemical Company			AS54568
603	Brandywine Global Investments			AS53427
604	TGLOBAL NETWORKS		X	AS46450
605	Pilot Fiber, Inc.		X	AS24655
606	BANK OF CYPRUS PUBLIC COMPANY LIMITED			AS4764
607	Aussie Broadband			AS15600
608	Quickline AG			AS59907
609	IQVIA SOLUTIONS HQ LTD			AS13649
610	Flexential Colorado Corp.			AS12565
611	GROUPE LDLC SA			AS12969
612	Ljosleidarinn ehf		X	AS13745
613	APNIC ASN block			AS39759
614	Passepartout s.p.a.			AS14017
615	Burlington Northern Sante Fe Railway Corp			AS13613
616	SQUIXA PTY LIMITED			AS18041
617	Taiwan Digital Streaming Co.		X	AS20069
618	KLDiscovery Limited			AS48932
619	Saudi Arabian Airlines			AS20388
620	Societe nationale SNCF SA			AS1204
621	The State University of New York			AS64475
622	Freifunk Frankfurt am Main e.V.		X	AS26354
623	IMF NETWORK DATA LTDA - ME		X	AS8651
624	MUFG Securities EMEA PLC			AS39979
625	Novantas, Inc.			AS58957

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648	EDGECONNECT			
649	Protocol Labs			
650	cloudscale.ch AG		X	AS59414
651	UACITY Ltd.		X	AS48919
652	Unitas Global			AS12179
653	Michael Sebastian Schinzel trading as IP-Projects GmbH & Co. KG			AS48314
654	Telsense			AS329035
655	Fiberby ApS		X	AS42541
656	Kurlec Wireless (PTY) Ltd			AS328320
657	SoftLayer Technologies Inc.			AS36351
658	LG DACOM Corporation			AS3786
659	TWNIC-TW-4-byte-AS-BLOCK1			AS131620
660	APPLIED SYSTEMS, INC			AS54023
661	Telax Hosted Call Centre			AS46994
662	Swiss Federation represented by FOITT			AS33845
663	Thai Oil Public Company Limited			AS152190
664	LMAX Digital Group Limited			AS39498
665	APNIC ASN block			AS135357
666	CTS Communications Corp		X	AS19653
667	Axialys SAS			AS16363
668	NewMedia Express Pte Ltd		X	AS38001
669	Cadence Bank, N.A.			AS54991
670	GPU.ONE ENTERPRISE INC			AS20016
671	REGIONS FINANCIAL CORPORATION			AS10801
672	Dauphin Telecom			AS33392
673	McLaren Macomb			AS397745
674	Insight Actuaries & Consultants PTY LTD		X	AS328964
675	AbbVie, Inc.			AS26534
676	Aplitt Sp. z o.o.		X	AS49420
677	PC Maniacs (Pty) Ltd			AS327960
678	CoreWeave, Inc			AS33425
679	Television New Zealand			AS37999
680	Blix Group AS		X	AS61292
681	Bright Horizons			AS32130
682	Eurotranstelecom Ltd		X	AS35320
683	Match Group, LLC			AS19071
684	New York State Unified Court System			AS20330
685	RTO GmbH			AS203175
686	B3 S.A. Brasil, Bolsa, Balco			AS52672



684	New York State			AS205113
685	RTO GmbH			AS205113
686	B3 S.A. Brasil, Bolsa, Balco			AS52672
687	APNIC ASN block			AS137386
688	Asia Pacific Network Information Centre		X	AS4777
689	Andrews Federal Credit Union			AS11466
690	Advent Software			AS11144
691	IP ServerOne Solutions Sdn Bhd			AS45352
692	Cloudflare Inc		X	AS202623
693	Joink, LLC			AS32709
694	Bet Invest LTD			AS199535
695	CMA CGM SA			AS21203
696	Columbus Networks USA, Inc.		X	AS23520
697	MAGNA STEYR Fahrzeugtechnik AG und Co KG			AS12766
698	Korea Security Technology Co., Ltd.			AS38106
699	iCastCenter		X	AS53767
700	GMO Internet, Inc			AS58791
701	ArcelorMittal Sistemas SA			AS14723
702	Emagine Concept, Inc.			AS31972
703	GETRESPONSE Sp.z o.o.			AS198881
704	Xilinx Incorporated			AS32537
705	NEOCOMISP LIMITED, IPTX Transit and Network Service Provider in Cambodia.		X	AS9902
706	BJT PARTNERS SAS			AS201188
707	Visteon Corporation			AS198321
708	JSC ER-Telecom Holding		X	AS48858
709	Misaka Network, Inc.		X	AS57695
710	Tradeweb Japan			AS37893
711	Workday Limited			AS198301
712	Rapyd Europe hf.			AS204586
713	Infinite Campus, Incorporated			AS20285
714	Sitrox AG			AS48027
715	Impulse Internet Services			AS4927
716	Transunion Cibil Limited			AS133860
717	Asia Pacific Network Information Centre			AS4608
718	Colonial Pipeline Company			AS46739
719	Kayak Software			AS36116
720	WIDE Project		X	AS2500
721	R.J. O'Brien Limited			AS202363
722	Teya Iceland hf			AS200432



719	Kayak Software	November 5, 2024 10:08 PM		X	AS2500
720	WIDE Project				AS202363
721	R.J. OBrien Limited				AS200432
722	Teyja Iceland hf				AS7713
723	PT Telekomunikasi Indonesia			X	AS29689
724	Origo hf				AS14792
725	DST Systems, Inc.				AS131254
726	Northpower Ltd				AS17170
727	McCain Foods Limited				AS6327
728	Shaw Communications Inc.				AS140079
729	Garmin International Inc				AS57406
730	Zero Distance LLC				AS134589
731	APNIC ASN block				AS49788
732	Nexthop AS			X	AS12741
733	Netia SA			X	AS16844
734	Entrata				AS212174
735	Jola Cloud Solutions Ltd				AS30303
736	Ooma, Inc.				AS7810
737	CompuCom Systems, Inc.				AS28596
738	B3 S.A. Brasil, Bolsa, Balco				AS28756
739	European Patent Organisation				AS7004
740	CTC Transmisiones Regionales S.A.				AS559
741	SWITCH			X	AS22445
742	Mohawk Industries, Inc.				AS41821
743	Optimizely GmbH				AS262462
744	Aranet Play			X	AS1351
745	University of Vermont			X	AS34177
746	CELESTE SAS			X	AS206587
747	Daktela s.r.o.				AS1003
748	andrewnet			X	AS215639
749	Cilix Limited				AS13713
750	Avago Technologies U.S. Inc.				AS34872
751	Sarah Rossius trading as Servperso Systems			X	AS8426
752	Claranet Limited			X	AS47828
753	Valitor hf				AS60539
754	Huicast Telecom Limited			X	AS212606
755	DiPocket Limited				AS11039
756	The George Washington University			X	AS15935
757	ha-vel internet s.r.o.				



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752	Claranet Limited			AS47828
753	Valitor hf			AS47828
754	Huicast Telecom Limited		X	AS60539
755	DiPocket Limited			AS212606
756	The George Washington University		X	AS11039
757	ha-vel internet s.r.o.			AS15935
758	Telx			AS36086
759	My Solutions Corporation Ltd.			AS45446
760	DSTI Holdings Limited			AS207245
761	CERIDIAN			AS21787
762	TELNET S.r.l.			AS5392
763	Roche Diagnostics GmbH			AS47340
764	DBS Bank India Limited			AS152594
765	University Corporation for Atmospheric Research			AS14041
766	Uber Technologies, Inc			AS63086
767	Nationale Alarmzentrale			AS202123
768	SpaceNet AG			AS5539
769	LSHIY LLC		X	AS955
770	Proton AG			AS209103
771	BET Software (Pty) Ltd			AS329068
772	APNIC ASN block			AS132365
773	Stratos Global Services, LLC			AS32782
774	Transunion Interactive, Inc.			AS12273
775	Transpower New Zealand Ltd.			AS38495
776	Bandwidth Inc.			AS12130
777	Karabro AB		X	AS51519
778	Bhp Billiton Petroleum (deepwater) Inc.			AS400608
779	Hormel Foods Corporation			AS46568
780	G-Core Labs S.A.		X	AS199524
781	Mobifone Global JSC			AS45896
782	Ytel, Inc.			AS53591
783	GRUPO IP (BRASIL) - IP TELECOM		X	AS61573
784	APNIC ASN block			AS135161
785	CLSA Ltd			AS10127
786	Berkley Technology Services LLC			AS32158
787	Allergan, Inc.			AS10666
788	Sprint		X	AS1239
789	FASTPATH IKE		X	AS56457
790	Worldline IGSA SA		X	AS47957



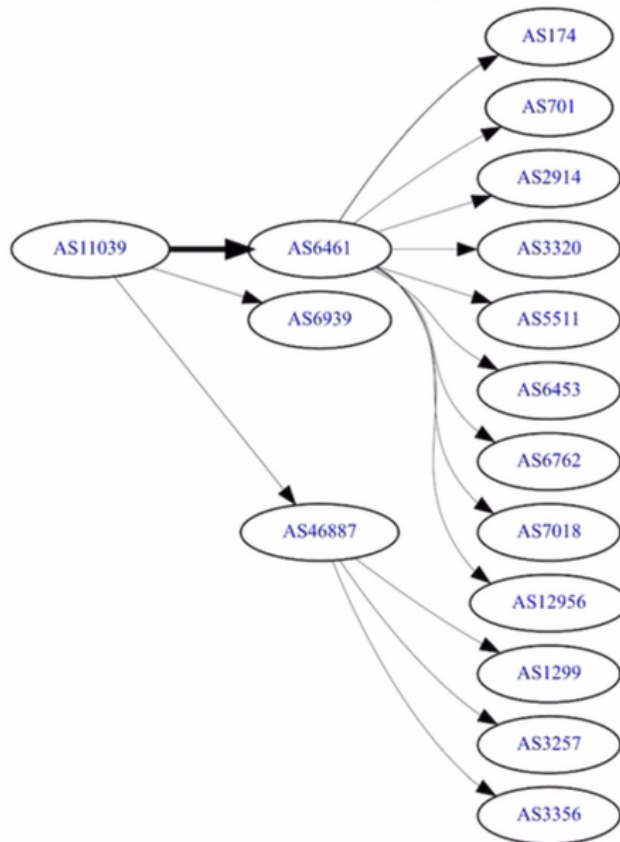
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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

AS11039 announces bogons.

Prefix	Description	Visibility
64.124.161.16/30		0% 1/645
65.211.74.53/32		0% 1/645
107.1.155.172/30		0% 1/645
107.17.55.239/32		0% 1/645
107.17.56.239/32		0% 1/645
128.164.0.0/16	The George Washington University	100% 645/645
161.253.0.0/17	The George Washington University	100% 645/645
161.253.128.0/17	The George Washington University	100% 645/645
172.27.62.0/23		0% 1/645

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- Graph v4
- Graph v6
- Prefixes v4
- Prefixes v6
- Peers v4
- Peers v6
- Whois
- RDAP
- IRR
- IX
- Traceroute

- GP Toolkit Home
- GP Prefix Report
- GP Peer Report
- uper Traceroute
- uper Looking Glass
- xchange Report
- ogon Routes
- orld Report
- ulti Origin Routes
- NS Report
- op Host Report
- ternet Statistics
- oking Glass
- etwork Tools App
- ee IPv6 Tunnel
- v6 Certification
- v6 Progress
- oing Native
- redits
- ontact Us

Company Website: <http://www.gwu.edu>

Country of Origin: [United States](#)

Internet Exchanges: 1

Prefixes Originated (all): 6
Prefixes Originated (v4): 4
Prefixes Originated (v6): 2

Prefixes Announced (all): 6
Prefixes Announced (v4): 4
Prefixes Announced (v6): 2

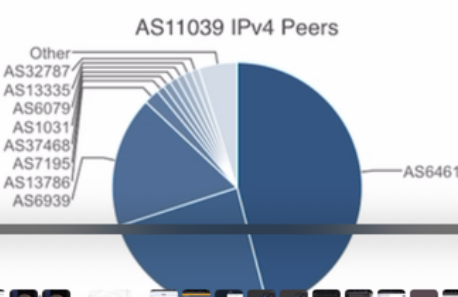
RPKI Originated Valid (all): 5
RPKI Originated Valid (v4): 3
RPKI Originated Valid (v6): 2

RPKI Originated Invalid (all): 0
RPKI Originated Invalid (v4): 0
RPKI Originated Invalid (v6): 0

BGP Peers Observed (all): 237
BGP Peers Observed (v4): 234
BGP Peers Observed (v6): 172

IPs Originated (v4): 131,584
AS Paths Observed (v4): 114,417
AS Paths Observed (v6): 43,493

Average AS Path Length (all): 4.820
Average AS Path Length (v4): 4.972
Average AS Path Length (v6): 4.421





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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

AS11039 announces bogons.

Prefix		Description	Visibility
<u>2606:69c0:5000::/36</u>		The George Washington University	100% 620/621
<u>2606:69c0:9000::/36</u>		The George Washington University	100% 620/621

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HURRICANE ELECTRIC
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Super Looking Glass
Exchange Report
BGP Routes
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Multi Origin Routes
DNS Report
IP Host Report
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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

Rank	Description	IPv6	Peer
1	Zayo Bandwidth	X	AS6461
2	The George Washington University	X	AS4901
3	Hurricane Electric LLC	X	AS6939
4	Seabras 1 USA, LLC	X	AS13786
5	EDGEUNO S.A.S	X	AS7195
6	Angola Cables	X	AS37468
7	PEER 1031 LLC		AS1031
8	RCN	X	AS6079
9	Cloudflare, Inc.	X	AS13335
10	Akamai Technologies, Inc.	X	AS32787
11	Vocus Connect International Backbone	X	AS4826
12	SAMM TECNOLOGIA E TELECOMUNICACOES S.A		AS262585
13	ELETRONET S.A.	X	AS267613
14	Unitas Global	X	AS1828
15	Voxility LLP		AS3223
16	GSL Networks Pty LTD	X	AS137405
17	Charter Communications	X	AS20115
18	F5 Networks SARL	X	AS35280
19	Adylnet Telecom	X	AS28283
20	SG.GS	X	AS24482
21	WNET TELECOM USA Corp.	X	AS1820
22	Incapsula Inc	X	AS19551
23	Crown Castle Fiber LLC	X	AS46887
24	Beanfield Technologies Inc.	X	AS21949
25	123.Net, Inc.	X	AS12129
26	US Signal Company, L.L.C.	X	AS26554
27	LUMOS Networks, Inc.	X	AS7795
28	TierPoint LLC	X	AS17378
29	Equinix (EMEA) Acquisition Enterprises B.V.	X	AS13630

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34	Equinix (EMEA)			
35	ERC Broadband			
36	Pilot Fiber, Inc.		X	AS46450
37	Crown Castle Fiber LLC		X	AS46887
38	Planters Communications, LLC		X	AS26744
39	US Signal Company, L.L.C.		X	AS26554
40	Microsoft Corporation		X	AS8075
41	Sony Interactive Entertainment LLC		X	AS33353
42	Viewqwest Pte Ltd		X	AS18106
43	SoftLayer Technologies Inc.		X	AS36351
44	OneCleveland		X	AS19009
45	Packet Host, Inc.		X	AS54825
46	LUMOS Networks, Inc.		X	AS7795
47	PenTeleData Inc.		X	AS3737
48	TeraSwitch Networks Inc.		X	AS20326
49	Allied Telecom Group, LLC		X	AS22925
50	WoodyNet, Inc.		X	AS42
51	Transtelco Inc		X	AS32098
52	The St. Paul Group		X	AS40217
53	Psychz Networks		X	AS40676
54	COLT Technology Services Group Limited		X	AS8220
55	GlobeNet Cabos Submarinos Colombia, S.A.S.		X	AS52320
56	EARTH TELECOMMUNICATION (Pvt) LTD.		X	AS58715
57	TDS TELECOM		X	AS4181
58	EPB Fiber Optics		X	AS26827
59	Zenlayer Inc		X	AS4229
60	Atlantech Online, Inc.		X	AS7784
61	Akamai International B.V.		X	AS20940
62	Deteque		X	AS54054
63	Uniti Fiber Holdings Inc.		X	AS13760
64	Conversant, Inc.		X	AS25751
65	HERE Global BV		X	AS1248
66	Netflix Streaming Services Inc.		X	AS2906
67	CIRA Canadian Internet Registration Authority Autorit Canadienne pour les enregistrements Internet		X	AS394354
68	IX Reach Ltd		X	AS4455
69	GoDaddy.com, LLC		X	AS26496
70	PT Telekomunikasi Indonesia			AS7713
71	PhoenixNAP LLC		X	AS12189
72	CTS Communications Corp		X	AS19653



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5	Seabras 1 USA		X	AS13788
6	Angola Cables		X	AS27749
7	Adylnet Telecom		X	AS28283
8	GSL Networks Pty LTD		X	AS137405
9	Vocus Connect International Backbone		X	AS4826
10	Unitas Global		X	AS1828
11	RCN		X	AS6079
12	Charter Communications		X	AS20115
13	Oath Holdings Inc.		X	AS10310
14	Akamai Technologies, Inc.		X	AS32787
15	Administracion Nacional de Telecomunicaciones		X	AS6057
16	F5 Networks SARL		X	AS35280
17	SG.GS		X	AS24482
18	Beanfield Technologies Inc.		X	AS21949
19	NetActuate, Inc		X	AS36236
20	123.Net, Inc.		X	AS12129
21	Misaka Network, Inc.		X	AS917
22	GoCodeIT Inc		X	AS835
23	Atlantic Metro Communications II, Inc.		X	AS29838
24	Cloudflare, Inc.		X	AS13335
25	i3D.net B.V		X	AS49544
26	Google LLC		X	AS15169
27	BroadbandONE, LLC		X	AS19151
28	Ooredoo Q.S.C.		X	AS8781
29	Parallax		X	AS26930
30	Limelight Networks, Inc.		X	AS22822
31	APNIC ASN block		X	AS45758
32	Airtek Solutions C.A.		X	AS61461
33	TierPoint, LLC		X	AS17378
34	Equinix (EMEA) Acquisition Enterprises B.V.		X	AS15830
35	ERC Broadband		X	AS64213
36	Pilot Fiber, Inc.		X	AS46450
37	Crown Castle Fiber LLC		X	AS46887
38	Planters Communications, LLC		X	AS26744
39	US Signal Company, L.L.C.		X	AS26554
40	Microsoft Corporation		X	AS8075
41	Sony Interactive Entertainment LLC		X	AS33353
42	Viewqwest Pte Ltd		X	AS18106
43	SoftLayer Technologies Inc.		X	AS36351
44	OneCleveland		X	AS19009
45	OneCleveland		X	AS19009





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Rank	Description	IPv4	Peer
1	Hurricane Electric LLC	X	AS6939
2	The George Washington University	X	AS4901
3	Zayo Bandwidth	X	AS6461
4	EDGEUNO S.A.S	X	AS7195
5	Seabras 1 USA, LLC	X	AS13786
6	Angola Cables	X	AS37468
7	Adylnet Telecom	X	AS28283
8	GSL Networks Pty LTD	X	AS137409
9	Vocus Connect International Backbone	X	AS4826
10	Unitas Global	X	AS1828
11	RCN	X	AS6079
12	Charter Communications	X	AS20115
13	Oath Holdings Inc.	X	AS10310
14	Akamai Technologies, Inc.	X	AS32787
15	Administracion Nacional de Telecomunicaciones	X	AS6057
16	F5 Networks SARL	X	AS35280
17	SG.GS	X	AS24482
18	Beanfield Technologies Inc.	X	AS21949
19	NetActuate, Inc	X	AS36236
20	123.Net, Inc.	X	AS12129
21	Misaka Network, Inc.	X	AS917
22	GoCodeIT Inc	X	AS835
23	Atlantic Metro Communications II, Inc.	X	AS29838
24	Cloudflare, Inc.	X	AS13335
25	i3D.net B.V	X	AS49544
26	Google LLC	X	AS15169
27	BroadbandONE, LLC	X	AS19151
28	Correos O.S.C	X	AS8781
29	Parallax	X	AS20930



26	Google LLC		X	AS15151
27	BroadbandONE, LLC		X	AS19151
28	Ooredoo Q.S.C.		X	AS8781
29	Parallax		X	AS26930
30	Limelight Networks, Inc.		X	AS22822
31	APNIC ASN block		X	AS45758
32	Airtek Solutions C.A.		X	AS61461
33	TierPoint, LLC		X	AS17378
34	Equinix (EMEA) Acquisition Enterprises B.V.		X	AS15830
35	ERC Broadband		X	AS64213
36	Pilot Fiber, Inc.		X	AS46450
37	Crown Castle Fiber LLC		X	AS46887
38	Planters Communications, LLC		X	AS26744
39	US Signal Company, L.L.C.		X	AS26554
40	Microsoft Corporation		X	AS8075
41	Sony Interactive Entertainment LLC		X	AS33353
42	Viewqwest Pte Ltd		X	AS18106
43	SoftLayer Technologies Inc.		X	AS36351
44	OneCleveland		X	AS19009
45	Packet Host, Inc.		X	AS54825
46	LUMOS Networks, Inc.		X	AS7795
47	PenTeleData Inc.		X	AS3737
48	TeraSwitch Networks Inc.		X	AS20326
49	Allied Telecom Group, LLC		X	AS22925
50	WoodyNet, Inc.		X	AS42
51	Transtelco Inc		X	AS32098
52	The St. Paul Group		X	AS40217
53	Psychz Networks		X	AS40676
54	COLT Technology Services Group Limited		X	AS8220
55	GlobeNet Cabos Submarinos Colombia, S.A.S.		X	AS52320
56	EARTH TELECOMMUNICATION (Pvt) LTD.		X	AS58715
57	TDS TELECOM		X	AS4181
58	EPB Fiber Optics		X	AS26827
59	Zenlayer Inc		X	AS4229
60	Atlantech Online, Inc.		X	AS7784
61	Akamai International B.V.		X	AS20940
62	Deteque		X	AS54054
63	Uniti Fiber Holdings Inc.		X	AS13760
64	Conversant, Inc.		X	AS25751



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55	GlobeNet Cabos		X	AS4181
56	EARTH TELECOM		X	AS26827
57	TDS TELECOM		X	AS4229
58	EPB Fiber Optics		X	AS7784
59	Zenlayer Inc		X	AS20940
60	Atlantech Online, Inc.		X	AS54054
61	Akamai International B.V.		X	AS13760
62	Deteque		X	AS25751
63	Uniti Fiber Holdings Inc.		X	AS1248
64	Conversant, Inc.		X	AS2906
65	HERE Global BV		X	AS394354
66	Netflix Streaming Services Inc.		X	AS4455
67	CIRA Canadian Internet Registration Authority Autorit Canadienne pour les enregistrements Internet		X	AS26496
68	IX Reach Ltd		X	AS7713
69	GoDaddy.com, LLC		X	AS12189
70	PT Telekomunikasi Indonesia		X	AS19653
71	PhoenixNAP LLC		X	AS199524
72	CTS Communications Corp		X	AS714
73	G-Core Labs S.A.		X	AS398465
74	Apple Inc.		X	AS29933
75	Rackdog, LLC		X	AS15211
76	FirstDigital Communications, LLC		X	AS22987
77	Square, Inc.		X	AS32934
78	BrightRidge		X	AS7342
79	Facebook, Inc.		X	AS4775
80	VeriSign Infrastructure & Operations		X	AS32133
81	Globe Telecoms		X	AS53991
82	Ting Fiber Inc.		X	AS197981
83	Acronis		X	AS23028
84	SAS INTERCLOUD		X	AS53766
85	Team Cymru Inc.		X	AS399647
86	VMWare, Inc.		X	AS139341
87	Rumble USA Inc.		X	AS394151
88	ACEVILLE PTE.LTD.		X	AS14907
89	Whatbox Inc.		X	AS11114
90	Wikimedia Foundation Inc.		X	AS16409
91	Wintek Corporation		X	AS399728
92	PBW Communications, LLC		X	
93	P Foundation		X	



92	PBW Communi	November 5, 2024		
93	P Foundation	10:08 PM		
94	Cisco OpenDNS, LLC		X	AS36692
95	Ntirety, Inc.		X	AS20021
96	Pandora Media, LLC		X	AS40428
97	T-Mobile USA, Inc.			AS21928
98	Twitch Interactive Inc.		X	AS46489
99	Burlington Telecom		X	AS33604
100	Vital Network Group, LLC		X	AS62296
101	Quality Technology Services, LLC		X	AS29748
102	Edgecast Inc.		X	AS15133
103	AFR-IX TELECOM SAU		X	AS60171
104	Rackspace Hosting		X	AS12200
105	Roblox		X	AS22697
106	Expereo International BV		X	AS15695
107	WNET TELECOM USA Corp.		X	AS1820
108	Foothills Rural Telephone Cooperative Corporation, Inc.		X	AS394111
109	Ivent Mobile bv		X	AS59865
110	Fastly, Inc.		X	AS54113
111	Continent 8 LLC		X	AS14537
112	Valve Corporation		X	AS32590
113	All Points Broadband		X	AS393713
114	Aptum Technologies		X	AS13768
115	Starry, Inc.		X	AS395354
116	Tiggee LLC		X	AS16552
117	Criteo Corp.		X	AS19750
118	IT Vocal LLC		X	AS32478
119	HopOne Internet Corporation		X	AS14361
120	ARIN Operations		X	AS393225
121	INTERKVM HOST SRL		X	AS6204
122	ZILLOW, INC.		X	AS18888
123	House of Ben Avraham LLC		X	AS3653
124	Acreto		X	AS396298
125	Cisco Systems, Inc.		X	AS55219
126	Comcast Cable Communications, LLC		X	AS7922
127	Telecom Algeria		X	AS36947
128	Keepit A/S		X	AS33412
129	Zoom Video Communications, Inc		X	AS30103
130	Hosted Backbone		X	AS14713
131	Oracle Corporation		X	AS31898
132	Oracle Corporation		X	AS31898





111	Continent 8 LLC		X	AS145...
112	Valve Corporation		X	AS32590
113	All Points Broadband		X	AS393713
114	Aptum Technologies		X	AS13768
115	Starry, Inc.		X	AS395354
116	Tiggee LLC		X	AS16552
117	Criteo Corp.		X	AS19750
118	IT Vocal LLC		X	AS32478
119	HopOne Internet Corporation		X	AS14361
120	ARIN Operations		X	AS393225
121	INTERKVM HOST SRL		X	AS6204
122	ZILLOW, INC.		X	AS18888
123	House of Ben Avraham LLC		X	AS3653
124	Acreto		X	AS396296
125	Cisco Systems, Inc.		X	AS55219
126	Comcast Cable Communications, LLC		X	AS7922
127	Telecom Algeria		X	AS36947
128	Keepit A/S		X	AS33412
129	Zoom Video Communications, Inc		X	AS30103
130	Hosted Backbone		X	AS14713
131	Oracle Corporation		X	AS31898
132	OVH SAS		X	AS16276
133	QuickPacket, LLC		X	AS46261
134	Bytedance Inc.		X	AS396986
135	OSNET Wireless		X	AS21559
136	APPRISS INC		X	AS19783
137	Education Networks of America		X	AS11686
138	Salesforce.com, Inc.		X	AS14340
139	LeaseWeb Network B.V.		X	AS16265
140	Knoxville Utilities Board		X	AS33566
141	Incapsula Inc		X	AS19551
142	Qwilt Inc.		X	AS20253
143	HypeStatus Inc		X	AS998
144	Hughes Network Systems, LLC		X	AS6621
145	Quantcast Corporation		X	AS27281
146	GCR Company/GCR Online		X	AS22299
147	e-planning		X	AS399668
148	Quantum Internet Services, Inc.		X	AS7055
149	Ahrefs Pte Ltd		X	AS140577
150	Chili Labs Inc		X	AS26459
151	WhiteSky Communications, LLC		X	AS62887



85	Team Gymn Inc.			
86	VMWare, Inc.			
87	Rumble USA Inc.		X	AS399641
88	ACEVILLE PTE.LTD.		X	AS139341
89	Whatbox Inc.		X	AS394151
90	Wikimedia Foundation Inc.		X	AS14907
91	Wintek Corporation		X	AS11114
92	PBW Communications, LLC		X	AS16409
93	P Foundation		X	AS399728
94	Cisco OpenDNS, LLC		X	AS36692
95	Ntirety, Inc.		X	AS20021
96	Pandora Media, LLC		X	AS40428
97	T-Mobile USA, Inc.			AS21928
98	Twitch Interactive Inc.		X	AS46489
99	Burlington Telecom		X	AS33604
100	Vital Network Group, LLC		X	AS62296
101	Quality Technology Services, LLC		X	AS29748
102	Edgecast Inc.		X	AS15133
103	AFR-IX TELECOM SAU		X	AS60171
104	Rackspace Hosting		X	AS12200
105	Roblox		X	AS22697
106	Expereo International BV		X	AS15695
107	WNET TELECOM USA Corp.		X	AS1820
108	Foothills Rural Telephone Cooperative Corporation, Inc.		X	AS394111
109	Ivent Mobile bv		X	AS59865
110	Fastly, Inc.		X	AS54113
111	Continent 8 LLC		X	AS14537
112	Valve Corporation		X	AS32590
113	All Points Broadband		X	AS393713
114	Aptum Technologies		X	AS13768
115	Starry, Inc.		X	AS395354
116	Tiggee LLC		X	AS16552
117	Criteo Corp.		X	AS19750
118	IT Vocal LLC		X	AS32478
119	HopOne Internet Corporation		X	AS14361
120	ARIN Operations		X	AS393225
121	INTERKVM HOST SRL		X	AS6204
122	ZILLOW, INC.		X	AS18888
123	House of Ben Avraham LLC		X	AS3653
124	Acreto		X	AS396296



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133	QuickPacket, LLC		X	AS21559
134	Bytedance Inc.		X	AS19783
135	OSNET Wireless		X	AS11686
136	APPRISS INC		X	AS14340
137	Education Networks of America		X	AS16265
138	Salesforce.com, Inc.		X	AS33566
139	LeaseWeb Network B.V.		X	AS19551
140	Knoxville Utilities Board		X	AS20253
141	Incapsula Inc		X	AS998
142	Qwilt Inc.		X	AS6621
143	HypeStatus Inc		X	AS27281
144	Hughes Network Systems, LLC		X	AS22299
145	Quantcast Corporation		X	AS399666
146	GCR Company/GCR Online		X	AS7055
147	e-planning		X	AS140577
148	Quantum Internet Services, Inc.		X	AS36459
149	Ahrefs Pte Ltd		X	AS62887
150	GitHub, Inc.		X	AS267613
151	WhiteSky Communications, LLC.		X	AS24429
152	ELETRONET S.A.		X	AS397849
153	Zhejiang Taobao Network Co.,Ltd		X	AS398334
154	ZOHO		X	AS2635
155	Tekvizion PVS, Inc.		X	AS57976
156	Automattic, Inc		X	AS13984
157	Blizzard Entertainment, Inc		X	AS16559
158	SD Data Center		X	AS132203
159	REALCONNECT 01		X	AS10297
160	Tencent Building, Kejizhongyi Avenue		X	AS62955
161	eNET Inc.		X	AS209453
162	eBay, Inc		X	AS14593
163	GANDI SAS		X	AS54994
164	Space Exploration Technologies Corporation		X	AS53334
165	Metaverse Limited.		X	AS26667
166	Total Uptime Technologies, LLC		X	AS6507
167	The Rubicon Project, Inc.		X	AS42473
168	Riot Games, Inc		X	AS32244
169	ANEXIA Internetdienstleistungs GmbH		X	AS57695
170	Liquid Web, L.L.C		X	AS138915
171	Misaka Network, Inc.		X	
172	Kaopu Cloud HK Limited		X	



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Whois RDAP IRR IX Traceroute

Rank	Description	IPv6	Peer
1	Zayo Bandwidth	X	AS6461
2	The George Washington University	X	AS4901
3	Hurricane Electric LLC	X	AS6939
4	Seabras 1 USA, LLC	X	AS13786
5	EDGEUNO S.A.S	X	AS7195
6	Angola Cables	X	AS37468
7	PEER 1031 LLC		AS1031
8	RCN	X	AS6079
9	Cloudflare, Inc.	X	AS13335
10	Akamai Technologies, Inc.	X	AS32787
11	Vocus Connect International Backbone	X	AS4826
12	SAMM TECNOLOGIA E TELECOMUNICACOES S.A		AS262585
13	ELETRONET S.A.	X	AS267613
14	Unitas Global	X	AS1828
15	Voxility LLP		AS3223
16	GSL Networks Pty LTD	X	AS137405
17	Charter Communications	X	AS20115
18	F5 Networks SARL	X	AS35280
19	Adylnet Telecom	X	AS28283
20	SG.GS	X	AS24482
21	WNET TELECOM USA Corp.	X	AS1820
22	Incapsula Inc	X	AS19551
23	Crown Castle Fiber LLC	X	AS46887
24	Beanfield Technologies Inc.	X	AS21949
25	123.Net, Inc.	X	AS12129
26	US Signal Company, L.L.C.	X	AS26554
27	LUMOS Networks, Inc.	X	AS7795
28	TierPoint LLC	X	AS17378
29	Equinix (EMEA) Acquisition Enterprises B.V.	X	AS13630

12	Charter Comm			
13	Oath Holdings I			
14	Akamai Technologies, Inc.		X	AS32787
15	Administracion Nacional de Telecomunicaciones		X	AS6057
16	F5 Networks SARL		X	AS35280
17	SG.GS		X	AS24482
18	Beanfield Technologies Inc.		X	AS21949
19	NetActuate, Inc		X	AS36236
20	123.Net, Inc.		X	AS12129
21	Misaka Network, Inc.		X	AS917
22	GoCodeIT Inc		X	AS835
23	Atlantic Metro Communications II, Inc.		X	AS29838
24	Cloudflare, Inc.		X	AS13335
25	i3D.net B.V		X	AS49544
26	Google LLC		X	AS15169
27	BroadbandONE, LLC		X	AS19151
28	Ooredoo Q.S.C.		X	AS8781
29	Parallax		X	AS26930
30	Limelight Networks, Inc.		X	AS22822
31	APNIC ASN block		X	AS45758
32	Airtek Solutions C.A.		X	AS61461
33	TierPoint, LLC		X	AS17378
34	Equinix (EMEA) Acquisition Enterprises B.V.		X	AS15830
35	ERC Broadband		X	AS64213
36	Pilot Fiber, Inc.		X	AS46450
37	Crown Castle Fiber LLC		X	AS46887
38	Planters Communications, LLC		X	AS26744
39	US Signal Company, L.L.C.		X	AS26554
40	Microsoft Corporation		X	AS8075
41	Sony Interactive Entertainment LLC		X	AS33353
42	Viewqwest Pte Ltd		X	AS18106
43	SoftLayer Technologies Inc.		X	AS36351
44	OneCleveland		X	AS19009
45	Packet Host, Inc.		X	AS54825
46	LUMOS Networks, Inc.		X	AS7795
47	PenTeleData Inc.		X	AS3737
48	TeraSwitch Networks Inc.		X	AS20326
49	Allied Telecom Group, LLC		X	AS22925
50	WoodyNet, Inc.		X	AS42
51	Transtelco Inc		X	AS32098





36	Pilot Fiber, Inc.		X	AS26744
37	Crown Castle F. LLC		X	AS26554
38	Planters Communications, LLC		X	AS8075
39	US Signal Company, L.L.C.		X	AS33353
40	Microsoft Corporation		X	AS18106
41	Sony Interactive Entertainment LLC		X	AS36351
42	Viewqwest Pte Ltd		X	AS19009
43	SoftLayer Technologies Inc.		X	AS54825
44	OneCleveland		X	AS7795
45	Packet Host, Inc.		X	AS3737
46	LUMOS Networks, Inc.		X	AS20326
47	PenTeleData Inc.		X	AS22925
48	TeraSwitch Networks Inc.		X	AS42
49	Allied Telecom Group, LLC		X	AS32098
50	WoodyNet, Inc.		X	AS40217
51	Transtelco Inc		X	AS40676
52	The St. Paul Group		X	AS8220
53	Psychz Networks		X	AS52320
54	COLT Technology Services Group Limited		X	AS58715
55	GlobeNet Cabos Submarinos Colombia, S.A.S.		X	AS4181
56	EARTH TELECOMMUNICATION (Pvt) LTD.		X	AS26827
57	TDS TELECOM		X	AS4229
58	EPB Fiber Optics		X	AS7784
59	Zenlayer Inc		X	AS20940
60	Atlantech Online, Inc.		X	AS54054
61	Akamai International B.V.		X	AS13760
62	Deteque		X	AS25751
63	Uniti Fiber Holdings Inc.		X	AS1248
64	Conversant, Inc.		X	AS2906
65	HERE Global BV		X	AS394354
66	Netflix Streaming Services Inc.		X	AS4455
67	CIRA Canadian Internet Registration Authority Autorit Canadienne pour les enregistrements Internet		X	AS26496
68	IX Reach Ltd		X	AS7713
69	GoDaddy.com, LLC		X	AS12189
70	PT Telekomunikasi Indonesia		X	AS19653
71	PhoenixNAP LLC		X	AS199524
72	CTS Communications Corp		X	AS714
73	G-Core Labs S.A.		X	
74	Apple Inc.		X	





35	ERC Broadband	November 5, 2024 10:08 PM		X	AS46450
36	Pilot Fiber, Inc.			X	AS46887
37	Crown Castle Fiber LLC			X	AS26744
38	Planters Communications, LLC			X	AS26554
39	US Signal Company, L.L.C.			X	AS8075
40	Microsoft Corporation			X	AS33353
41	Sony Interactive Entertainment LLC			X	AS18106
42	Viewqwest Pte Ltd			X	AS36351
43	SoftLayer Technologies Inc.			X	AS19009
44	OneCleveland			X	AS54825
45	Packet Host, Inc.			X	AS7795
46	LUMOS Networks, Inc.			X	AS3737
47	PenTeleData Inc.			X	AS20326
48	TeraSwitch Networks Inc.			X	AS22925
49	Allied Telecom Group, LLC			X	AS42
50	WoodyNet, Inc.			X	AS32098
51	Transtelco Inc			X	AS40217
52	The St. Paul Group			X	AS40676
53	Psychz Networks			X	AS8220
54	COLT Technology Services Group Limited			X	AS52320
55	GlobeNet Cabos Submarinos Colombia, S.A.S.			X	AS58715
56	EARTH TELECOMMUNICATION (Pvt) LTD.			X	AS4181
57	TDS TELECOM			X	AS26827
58	EPB Fiber Optics			X	AS4229
59	Zenlayer Inc			X	AS7784
60	Atlantech Online, Inc.			X	AS20940
61	Akamai International B.V.			X	AS54054
62	Deteque			X	AS13760
63	Uniti Fiber Holdings Inc.			X	AS25751
64	Conversant, Inc.			X	AS1248
65	HERE Global BV			X	AS2906
66	Netflix Streaming Services Inc.			X	AS394354
67	CIRA Canadian Internet Registration Authority Autorit Canadienne pour les enregistrements Internet			X	AS4455
68	IX Reach Ltd			X	AS26496
69	GoDaddy.com, LLC			X	AS7713
70	PT Telekomunikasi Indonesia			X	AS12189
71	PhoenixNAP LLC			X	AS19653
72	OTC Communications Corp			X	AS199524
73	G-Core Labs S.A.			X	





59	Zenlayer Inc	November 5, 2024 10:08 PM		X	AS1104
60	Atlantech Online, Inc.			X	AS20940
61	Akamai International B.V.			X	AS54054
62	Deteque			X	AS13760
63	Uniti Fiber Holdings Inc.			X	AS25751
64	Conversant, Inc.			X	AS1248
65	HERE Global BV			X	AS2906
66	Netflix Streaming Services Inc.			X	AS394354
67	CIRA Canadian Internet Registration Authority Autorit Canadienne pour les enregistrements Internet			X	AS4455
68	IX Reach Ltd			X	AS26496
69	GoDaddy.com, LLC			X	AS7713
70	PT Telekomunikasi Indonesia			X	AS12189
71	PhoenixNAP LLC			X	AS19653
72	CTS Communications Corp			X	AS199524
73	G-Core Labs S.A.			X	AS714
74	Apple Inc.			X	AS398465
75	Rackdog, LLC			X	AS29933
76	FirstDigital Communications, LLC			X	AS15211
77	Square, Inc.			X	AS22987
78	BrightRidge			X	AS32934
79	Facebook, Inc.			X	AS7342
80	VeriSign Infrastructure & Operations			X	AS4775
81	Globe Telecoms			X	AS32133
82	Ting Fiber Inc.			X	AS53991
83	Acronis			X	AS197981
84	SAS INTERCLOUD			X	AS23028
85	Team Cymru Inc.			X	AS53766
86	VMWare, Inc.			X	AS399647
87	Rumble USA Inc.			X	AS139341
88	ACEVILLE PTE.LTD.			X	AS394151
89	Whatbox Inc.			X	AS14907
90	Wikimedia Foundation Inc.			X	AS11114
91	Wintek Corporation			X	AS16409
92	PBW Communications, LLC			X	AS399726
93	P Foundation			X	AS36692
94	Cisco OpenDNS, LLC			X	AS20021
95	Ntirety, Inc.			X	AS40428
96	Pandora Media, LLC			X	AS21928
97	T-Mobile USA, Inc.			X	



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71	PhoenixNAP LLC		X	AS19653
72	CTS Communications Corp		X	AS199524
73	G-Core Labs S.A.		X	AS714
74	Apple Inc.		X	AS398465
75	Rackdog, LLC		X	AS29933
76	FirstDigital Communications, LLC		X	AS15211
77	Square, Inc.		X	AS22987
78	BrightRidge		X	AS32934
79	Facebook, Inc.		X	AS7342
80	VeriSign Infrastructure & Operations		X	AS4775
81	Globe Telecoms		X	AS32133
82	Ting Fiber Inc.		X	AS53991
83	Acronis		X	AS197981
84	SAS INTERCLOUD		X	AS23028
85	Team Cymru Inc.		X	AS53766
86	VMWare, Inc.		X	AS399647
87	Rumble USA Inc.		X	AS139341
88	ACEVILLE PTE.LTD.		X	AS394151
89	Whatbox Inc.		X	AS14907
90	Wikimedia Foundation Inc.		X	AS11114
91	Wintek Corporation		X	AS16409
92	PBW Communications, LLC		X	AS399726
93	P Foundation		X	AS36692
94	Cisco OpenDNS, LLC		X	AS20021
95	Ntirety, Inc.		X	AS40428
96	Pandora Media, LLC		X	AS21928
97	T-Mobile USA, Inc.		X	AS46489
98	Twitch Interactive Inc.		X	AS33604
99	Burlington Telecom		X	AS62296
100	Vital Network Group, LLC		X	AS29748
101	Quality Technology Services, LLC		X	AS15133
102	Edgecast Inc.		X	AS60171
103	AFR-IX TELECOM SAU		X	AS12200
104	Rackspace Hosting		X	AS22697
105	Roblox		X	AS15695
106	Expereo International BV		X	AS1820
107	WNET TELECOM USA Corp.		X	AS394111
108	Foothills Rural Telephone Cooperative Corporation, Inc.		X	AS59865
109	Ivent Mobile bv		X	





122	ZILLOW, INC.		X	AS188...
123	House of Ben Avramim LLC		X	AS3653
124	Acreto		X	AS396298
125	Cisco Systems, Inc.		X	AS55219
126	Comcast Cable Communications, LLC		X	AS7922
127	Telecom Algeria		X	AS36947
128	Keepit A/S		X	AS33412
129	Zoom Video Communications, Inc		X	AS30103
130	Hosted Backbone		X	AS14713
131	Oracle Corporation		X	AS31898
132	OVH SAS		X	AS16276
133	QuickPacket, LLC		X	AS46261
134	Bytedance Inc.		X	AS396986
135	OSNET Wireless		X	AS21559
136	APPRISS INC		X	AS19783
137	Education Networks of America		X	AS11686
138	Salesforce.com, Inc.		X	AS14340
139	LeaseWeb Network B.V.		X	AS16265
140	Knoxville Utilities Board		X	AS33566
141	Incapsula Inc		X	AS19551
142	Qwilt Inc.		X	AS20253
143	HypeStatus Inc		X	AS998
144	Hughes Network Systems, LLC		X	AS6621
145	Quantcast Corporation		X	AS27281
146	GCR Company/GCR Online		X	AS22299
147	e-planning		X	AS399666
148	Quantum Internet Services, Inc.		X	AS7055
149	Ahrefs Pte Ltd		X	AS140577
150	GitHub, Inc.		X	AS36459
151	WhiteSky Communications, LLC.		X	AS62887
152	ELETRONET S.A.		X	AS267613
153	Zhejiang Taobao Network Co.,Ltd		X	AS24429
154	ZOHO		X	AS397845
155	Tekvizion PVS, Inc.		X	AS398334
156	Automattic, Inc		X	AS2635
157	Blizzard Entertainment, Inc		X	AS57976
158	SD Data Center		X	AS13984
159	REALCONNECT 01		X	AS16559
160	Tencent Building, Kejizhongyi Avenue		X	AS132203

November 5, 2024
10:08 PM

92	PBW Communi			
93	P Foundation			
94	Cisco OpenDNS, LLC		X	AS36692
95	Ntirety, Inc.		X	AS20021
96	Pandora Media, LLC		X	AS40428
97	T-Mobile USA, Inc.			AS21928
98	Twitch Interactive Inc.		X	AS46489
99	Burlington Telecom		X	AS33604
100	Vital Network Group, LLC		X	AS62296
101	Quality Technology Services, LLC		X	AS29748
102	Edgecast Inc.		X	AS15133
103	AFR-IX TELECOM SAU		X	AS60171
104	Rackspace Hosting		X	AS12200
105	Roblox		X	AS22697
106	Expereo International BV		X	AS15695
107	WNET TELECOM USA Corp.		X	AS1820
108	Foothills Rural Telephone Cooperative Corporation, Inc.		X	AS394111
109	Ivent Mobile bv		X	AS59865
110	Fastly, Inc.		X	AS54113
111	Continent 8 LLC		X	AS14537
112	Valve Corporation		X	AS32590
113	All Points Broadband		X	AS393713
114	Aptum Technologies		X	AS13768
115	Starry, Inc.		X	AS395354
116	Tiggee LLC		X	AS16552
117	Criteo Corp.		X	AS19750
118	IT Vocal LLC		X	AS32478
119	HopOne Internet Corporation		X	AS14361
120	ARIN Operations		X	AS393225
121	INTERKVM HOST SRL		X	AS6204
122	ZILLOW, INC.		X	AS18888
123	House of Ben Avraham LLC		X	AS3653
124	Acreto		X	AS396296
125	Cisco Systems, Inc.		X	AS55219
126	Comcast Cable Communications, LLC		X	AS7922
127	Telecom Algeria		X	AS36947
128	Keepit A/S		X	AS33412
129	Zoom Video Communications, Inc		X	AS30103
130	Hooted Backbone		X	AS14713
131	Oracle Corporation		X	AS31898





133	QuickPacket, LLC			
134	Bytedance Inc.			
135	OSNET Wireless		X	AS21559
136	APPRISS INC		X	AS19783
137	Education Networks of America		X	AS11686
138	Salesforce.com, Inc.		X	AS14340
139	LeaseWeb Network B.V.		X	AS16265
140	Knoxville Utilities Board		X	AS33566
141	Incapsula Inc		X	AS19551
142	Qwilt Inc.		X	AS20253
143	HypeStatus Inc		X	AS998
144	Hughes Network Systems, LLC		X	AS6621
145	Quantcast Corporation		X	AS27281
146	GCR Company/GCR Online		X	AS22299
147	e-planning		X	AS399668
148	Quantum Internet Services, Inc.		X	AS7055
149	Ahrefs Pte Ltd		X	AS140577
150	GitHub, Inc.		X	AS36459
151	WhiteSky Communications, LLC.		X	AS62887
152	ELETRONET S.A.		X	AS267613
153	Zhejiang Taobao Network Co.,Ltd		X	AS24429
154	ZOHO		X	AS397849
155	Tekvizion PVS, Inc.		X	AS398334
156	Automattic, Inc		X	AS2635
157	Blizzard Entertainment, Inc		X	AS57976
158	SD Data Center		X	AS13984
159	REALCONNECT 01		X	AS16559
160	Tencent Building, Kejizhongyi Avenue		X	AS132203
161	eNET Inc.			AS10297
162	eBay, Inc		X	AS62955
163	GANDI SAS		X	AS209453
164	Space Exploration Technologies Corporation		X	AS14593
165	Metaverse Limited.		X	AS54994
166	Total Uptime Technologies, LLC		X	AS53334
167	The Rubicon Project, Inc.		X	AS26667
168	Riot Games, Inc		X	AS6507
169	ANEXIA Internetdienstleistungs GmbH		X	AS42473
170	Liquid Web, L.L.C		X	AS32244
171	Misaka Network Inc.		X	AS57695
172	Kaopu Cloud HK Limited		X	AS138915



Events:

November 5, 2024

last changed: 7/12/2017 10:08 PM

registration: 9/23/1986, 11:00:00 PM

Contact:

Name: The George Washington University

Address:

801 22nd Street, NW
Academic Center, Suite B148
Washington
DC
20052
United States

kind: org

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/GWU> (self)
- <https://whois.arin.net/rest/org/GWU> (alternate)

Entities:

Entity ABUSE575-ARIN

Hide

Handle: ABUSE575-ARIN

Roles:

- abuse

Events:

last changed: 7/19/2023, 9:45:14 AM

registration: 3/8/2004, 4:26:43 PM

Contact:

Address:

Academic Center, B202
801 22nd Street, NW
Washington
DC
20052
United States

Name: Abuse Administrator

Org: Abuse Administrator

kind: group

Email: abuse@gwu.edu

Tel: +1-202-994-4000 (work,voice)

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/ABUSE575-ARIN> (self)
- <https://whois.arin.net/rest/poc/ABUSE575-ARIN> (alternate)



107	WNET TELECOM USA Corp.		X	AS1820
108	Foothills Rural Telephone Cooperative Corporation, Inc.		X	AS394111
109	Ivent Mobile bv		X	AS59865
110	Fastly, Inc.		X	AS54113
111	Continent 8 LLC		X	AS14537
112	Valve Corporation		X	AS32590
113	All Points Broadband		X	AS393713
114	Aptum Technologies		X	AS13768
115	Starry, Inc.		X	AS395354
116	Tiggee LLC		X	AS16552
117	Criteo Corp.		X	AS19750
118	IT Vocal LLC		X	AS32478
119	HopOne Internet Corporation		X	AS14361
120	ARIN Operations		X	AS393225
121	INTERKVM HOST SRL		X	AS6204
122	ZILLOW, INC.		X	AS18888
123	House of Ben Avraham LLC		X	AS3653
124	Acreto		X	AS396298
125	Cisco Systems, Inc.		X	AS55219
126	Comcast Cable Communications, LLC		X	AS7922
127	Telecom Algeria		X	AS36947
128	Keepit A/S		X	AS33412
129	Zoom Video Communications, Inc		X	AS30103
130	Hosted Backbone		X	AS14713
131	Oracle Corporation		X	AS31898
132	OVH SAS		X	AS16276
133	QuickPacket, LLC		X	AS46261
134	Bytedance Inc.		X	AS396986
135	OSNET Wireless		X	AS21559
136	APPRISS INC		X	AS19783
137	Education Networks of America		X	AS11686
138	Salesforce.com, Inc.		X	AS14340
139	LeaseWeb Network B.V.		X	AS16265
140	Knoxville Utilities Board		X	AS33566
141	Incapsula Inc		X	AS19551
142	Qwilt Inc.		X	AS20253
143	HypeStatus Inc		X	AS998
144	Indigres Network Systems, LLC		X	AS6621



Links:

- <https://rdap.arin.net/registry/entity/ABUSE575-ARIN>
- <https://whois.arin.net/rest/poc/ABUSE575-ARIN> (alternate)

Raw: [Show](#)

Entity GALLO3-ARIN

[Hide](#)

Handle: GALLO3-ARIN

Roles:

- routing
- technical

Events:

last changed: 2/8/2024, 6:41:44 AM

registration: 9/28/2009, 10:01:46 AM

Contact:

Address:

801 22nd Street NW
Washington
DC
20052
United States

Name: Andrew Gallo

kind: individual

Email: agallo@gwu.edu

Tel: +1-202-242-7766 (work,voice)

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/GALLO3-ARIN> (self)
- <https://whois.arin.net/rest/poc/GALLO3-ARIN> (alternate)

Raw: [Show](#)

Entity DA66-ARIN

[Hide](#)

Handle: DA66-ARIN

Roles:

- administrative
- technical

Events:

last changed: 12/4/2023, 6:54:34 AM

registration: 6/3/1998, 1:14:28 PM

Contact:

Address:





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AS11039

{JSON} Hide

Network Name: GWU

Autnum Range: 11039 - 11039

Status:

- active

Events:

last changed: 2/24/2012, 8:44:34 AM

registration: 3/16/1998, 11:00:00 PM

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/autnum/11039> (self)
- <https://whois.arin.net/rest/asn/AS11039> (alternate)

Entities:

Entity GWU

Hide

Handle: GWU

Roles:

- registrant

Events:

last changed: 11/1/2019, 12:21:43 PM

registration: 9/23/1986, 11:00:00 PM

Contact:

Name: The George Washington University

Address:

801 22nd Street, NW
Academic Center, Suite B148
Washington



- admin
- technical



Events:

last changed: 12/4/2023, 6:54:34 AM

registration: 6/3/1998, 1:14:28 PM

Contact:

Address:

The George Washington University
801 22nd St. NW, Suite B-205
Washington
DC
20052
United States

Name: Dns Administrator

Org: Dns Administrator

kind: group

Email: dns@gwu.edu

Tel: +1-202-994-4948 (work,voice)

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/DA66-ARIN> (self)
- <https://whois.arin.net/rest/poc/DA66-ARIN> (alternate)

Raw: [Show](#)

Raw: [Show](#)

Entity GALLO3-ARIN Hide

Handle: GALLO3-ARIN

Roles:

- technical

Events:

last changed: 2/8/2024, 6:41:44 AM

registration: 9/28/2009, 10:01:46 AM

Contact:

Address:

801 22nd Street NW
Washington
DC
20052
United States

Name: Andrew Gallo

kind: individual



Entity GALLO3-ARIN

November 5, 2024

Handle: GALLO3-ARIN

Roles:

- technical

Events:

last changed: 2/8/2024, 6:41:44 AM

registration: 9/28/2009, 10:01:46 AM

Contact:

Address:

801 22nd Street NW
Washington
DC
20052
United States

Name: Andrew Gallo

kind: individual

Email: agallo@gwu.edu

Tel: [+1-202-242-7766](tel:+1-202-242-7766) (work,voice)

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/GALLO3-ARIN> (self)
- <https://whois.arin.net/rest/poc/GALLO3-ARIN> (alternate)

Raw: [Show](#)

Notices:

Whois Inaccuracy Reporting

If you see inaccuracies in the results, please visit:

Links:

- [https://www.arin.net/resources/registry/whois/inaccuracy_reporting/\(inaccuracy-report\)](https://www.arin.net/resources/registry/whois/inaccuracy_reporting/(inaccuracy-report))

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Conformance:

- nro_rdap_profile_0
- rdap_level_0
- nro_rdap_profile_asn_flat_0

Raw: [Show](#)



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Network Tools App
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IPv6 Certification
IPv6 Progress
BGP Native
Credits
Contact Us

Whois

ASNumber: 11039
ASName: GWU
ASHandle: AS11039
RegDate: 1998-03-17
Updated: 2012-02-24
Ref: <https://rdap.arin.net/registry/autnum/11039>

OrgName: The George Washington University
OrgId: GWU
Address: 801 22nd Street, NW
Address: Academic Center, Suite B148
City: Washington
StateProv: DC
PostalCode: 20052
Country: US
RegDate: 1986-09-24
Updated: 2019-11-01
Ref: <https://rdap.arin.net/registry/entity/GWU>

OrgTechHandle: DA66-ARIN
OrgTechName: Dns Administrator
OrgTechPhone: +1-202-994-4948
OrgTechEmail: dns@gwu.edu
OrgTechRef: <https://rdap.arin.net/registry/entity/DA66-ARIN>

OrgRoutingHandle: GALL03-ARIN
OrgRoutingName: Gallo, Andrew
OrgRoutingPhone: +1-202-242-7766
OrgRoutingEmail: agallo@gwu.edu
OrgRoutingRef: <https://rdap.arin.net/registry/entity/GALL03-ARIN>

OrgTechHandle: GALL03-ARIN
OrgTechName: Gallo, Andrew
OrgTechPhone: +1-202-242-7766
OrgTechEmail: agallo@gwu.edu
OrgTechRef: <https://rdap.arin.net/registry/entity/GALL03-ARIN>

OrgAbuseHandle: ABUSE575-ARIN
OrgAbuseName: Abuse Administrator
OrgAbusePhone: +1-202-994-4000
OrgAbuseEmail: abuse@gwu.edu
OrgAbuseRef: <https://rdap.arin.net/registry/entity/ABUSE575-ARIN>

RTechHandle: GALL03-ARIN
RTechName: Gallo, Andrew
RTechPhone: +1-202-242-7766
RTechEmail: agallo@gwu.edu
RTechRef: <https://rdap.arin.net/registry/entity/GALL03-ARIN>

Contact:

Address:

The George Washington University
801 22nd St. NW, Suite B-205
Washington
DC
20052
United States

Name: Dns Administrator

Org: Dns Administrator

kind: group

Email: dns@gwu.edu

Tel: +1-202-994-4948 (work,voice)

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/DA66-ARIN> (self)
- <https://whois.arin.net/rest/poc/DA66-ARIN> (alternate)

Raw: [Show](#)

Raw: [Show](#)

Entity GALLO3-ARIN

[Hide](#)

Handle: GALLO3-ARIN

Roles:

- technical

Events:

last changed: 2/8/2024, 6:41:44 AM

registration: 9/28/2009, 10:01:46 AM

Contact:

Address:

801 22nd Street NW
Washington
DC
20052
United States

Name: Andrew Gallo

kind: individual

Email: agallo@gwu.edu

Tel: +1-202-242-7766 (work,voice)



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'v6 Progress
oing Native
redits
ontact Us

AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

ARIN

aut-num: [AS11039](#)
as-name: [AS11039](#)
descr: 801 22nd Street, NW
Washington DC 20052
United States
export: to AS-ANY announce [AS11039:AS-ALL](#)
admin-c: DA66-ARIN
tech-c: DA66-ARIN
tech-c: GALL03-ARIN
mnt-by: MNT-GWU
created: 2021-10-12T15:32:35Z
last-modified: 2021-10-12T15:32:35Z
source: ARIN



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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

ARIN

aut-num: AS11039
as-name: AS11039
descr: 801 22nd Street, NW
Washington DC 20052
United States
export: to AS-ANY announce AS11039:AS-ALL
admin-c: DA66-ARIN
tech-c: DA66-ARIN
tech-c: GALL03-ARIN
mnt-by: MNT-GWU
created: 2021-10-12T15:32:35Z
last-modified: 2021-10-12T15:32:35Z
source: ARIN



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- Peers v6
- Whois
- RDAP
- IRR
- IX
- Traceroute

Exchange	CC	City	IPv4	IPv6	
Equinix Ashburn		US	Ashburn	206.126.236.172	2001:504:0:2:0:1:1039:1



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 - xchange Report
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 - ee IPv6 Tunnel
 - 'v6 Certification
 - 'v6 Progress
 - oing Native
 - redits
 - ontact Us

- AS Info** **Graph v4** **Graph v6** **Prefixes v4** **Prefixes v6** **Peers v4** **Peers v6**
Whois **RDAP** **IRR** **IX** **Traceroute**

ARIN

aut-num: [AS11039](#)
as-name: [AS11039](#)
descr: 801 22nd Street, NW
Washington DC 20052
United States
export: to AS-ANY announce [AS11039:AS-ALL](#)
admin-c: DA66-ARIN
tech-c: DA66-ARIN
tech-c: GALL03-ARIN
mnt-by: MNT-GWU
created: 2021-10-12T15:32:35Z
last-modified: 2021-10-12T15:32:35Z
source: ARIN



S11039 The George Washington University

- Quick Links
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- Graph v4
- Graph v6
- Prefixes v4
- Prefixes v6
- Peers v4
- Peers v6
- Whois
- RDAP
- IRR
- IX
- Traceroute

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- uper Looking Glass
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- NS Report
- op Host Report
- ternet Statistics
- oking Glass
- etwork Tools App
- ee IPv6 Tunnel
- v6 Certification
- v6 Progress
- oing Native
- redits
- ontact Us

ARIN

aut-num:

AS11039

as-name:

AS11039

descr:

801 22nd Street, NW
Washington DC 20052
United States

export:

to AS-ANY announce AS11039:AS-ALL

admin-c:

DA66-ARIN

tech-c:

DA66-ARIN

tech-c:

GALL03-ARIN

mnt-by:

MNT-GWU

created:

2021-10-12T15:32:35Z

last-modified:

2021-10-12T15:32:35Z

source:

ARIN





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NS Report
BGP Host Report
Internet Statistics
Looking Glass
Network Tools App
Free IPv6 Tunnel
IPv6 Certification
IPv6 Progress
Config Native
Credits
Contact Us

Whois

ASNumber: 11039
ASName: GWU
ASHandle: AS11039
RegDate: 1998-03-17
Updated: 2012-02-24
Ref: <https://rdap.arin.net/registry/autnum/11039>

OrgName: The George Washington University
OrgId: GWU
Address: 801 22nd Street, NW
Address: Academic Center, Suite B148
City: Washington
StateProv: DC
PostalCode: 20052
Country: US
RegDate: 1986-09-24
Updated: 2019-11-01
Ref: <https://rdap.arin.net/registry/entity/GWU>

OrgTechHandle: DA66-ARIN
OrgTechName: Dns Administrator
OrgTechPhone: +1-202-994-4948
OrgTechEmail: dns@gwu.edu
OrgTechRef: <https://rdap.arin.net/registry/entity/DA66-ARIN>

OrgRoutingHandle: GALL03-ARIN
OrgRoutingName: Gallo, Andrew
OrgRoutingPhone: +1-202-242-7766
OrgRoutingEmail: agallo@gwu.edu
OrgRoutingRef: <https://rdap.arin.net/registry/entity/GALL03-ARIN>

OrgTechHandle: GALL03-ARIN
OrgTechName: Gallo, Andrew
OrgTechPhone: +1-202-242-7766
OrgTechEmail: agallo@gwu.edu
OrgTechRef: <https://rdap.arin.net/registry/entity/GALL03-ARIN>

OrgAbuseHandle: ABUSE575-ARIN
OrgAbuseName: Abuse Administrator
OrgAbusePhone: +1-202-994-4000
OrgAbuseEmail: abuse@gwu.edu
OrgAbuseRef: <https://rdap.arin.net/registry/entity/ABUSE575-ARIN>

RTechHandle: GALL03-ARIN
RTechName: Gallo, Andrew
RTechPhone: +1-202-242-7766
RTechEmail: agallo@gwu.edu
RTechRef: <https://rdap.arin.net/registry/entity/GALL03-ARIN>



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AS11039

{JSON} Hide

Network Name: GWU

Autnum Range: 11039 - 11039

Status:

- active

Events:

last changed: 2/24/2012, 8:44:34 AM

registration: 3/16/1998, 11:00:00 PM

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/autnum/11039> (self)
- <https://whois.arin.net/rest/asn/AS11039> (alternate)

Entities:

Entity GWU

Hide

Handle: GWU

Roles:

- registrant

Events:

last changed: 11/1/2019, 12:21:43 PM

registration: 9/23/1986, 11:00:00 PM

Contact:

Name: The George Washington University

Address:

801 22nd Street, NW
Academic Center, Suite B148
Washington

Done

Screen

Full Page

10:16 PM Tue Nov 5

Ho Urlv Che 107. 151. Abu WH Log +

bgp.he.net

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Equinix Ashburn	 US	Ashburn	206.126.236.172	2001:504:0:2:0:1:1039:1



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Exchange	CC	City	IPv4	IPv6	
Equinix Ashburn		US	Ashburn	206.126.236.172	2001:504:0:2:0:1:1039:1



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Traceroute Ping DNS Lookup

Select Target

Select Probe
[Showing v4 probes]

Type	Name	ASN	IP	City
Probes in AS11039				
RIPE	Probe #6957	11039	128.164.88.178	Washington District of Columbia, US

Perform Query!

Results will appear here



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Equinix Ashburn		US	Ashburn	206.126.236.172	2001:504:0:2:0:1:1039:1



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Exchange	CC	City	IPv4	IPv6	
Equinix Ashburn		US	Ashburn	206.126.236.172	2001:504:0:2:0:1:1039:1



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Exchange Info

Equinix Ashburn

Website: <https://ix.equinix.com>
Statistics: <https://ix.equinix.com/home/locations-and-traffic/#traffic>
Members: 341
Data Feed Health:
Region: North America
Country: United States
City: Ashburn
Technical Contact: support@equinix.com
Policy Contact: support@equinix.com
IPv4 Prefixes: 206.126.236.0/22
IPv6 Prefixes: 2001:504:0:2::/64

ASN	Name	IPv4	IPv6
AS42	WoodyNet, Inc.	206.126.236.111	2001:504:0:2::42:1
AS77	Johns Hopkins University Applied Physics Laboratory	206.126.239.78 206.126.239.77	
AS109	CISCO SYSTEMS, INC.	206.126.237.85	2001:504:0:2::109:1
AS293	ESnet	206.126.236.137	2001:504:0:2::293:1
AS297	National Aeronautics and Space Administration	206.126.237.220	2001:504:0:2::297:1
AS577	Bell Canada	206.126.236.203	2001:504:0:2::577:1
AS600	OARnet	206.126.237.96	2001:504:0:2::600:1
AS668	DoD Network Information Center	206.126.237.62	2001:504:0:2::668:3
AS714	Apple Inc.	206.126.237.103 206.126.237.51	2001:504:0:2::714:1 2001:504:0:2::714:2
AS800	OneWeb	206.126.236.96	2001:504:0:2::800:1
AS812	Rogers Communications Canada Inc.	206.126.236.105	2001:504:0:2::812:1
AS835	GoCodeIT Inc	206.126.239.94	2001:504:0:2::835:1
AS917	Misaka Network, Inc.	206.126.236.214	2001:504:0:2:0:5:7695:1
AS998	HypeStatus Inc	206.126.237.41	
AS1031	PEER 1031 LLC	206.126.236.88	2001:504:0:2::1031:1
AS1273	Vodafone Group PLC	206.126.236.73	2001:504:0:2::1273:1
AS1424	Motorola Inc	206.126.236.186 206.126.236.206	



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Equinix Ashburn

Website: <https://ix.equinix.com>
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Members: 341
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Region: North America
Country: United States
City: Ashburn
Technical Contact: support@equinix.com
Policy Contact: support@equinix.com
IPv4 Prefixes: 206.126.236.0/22
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AS42	WoodyNet, Inc.	206.126.236.111	2001:504:0:2::42:1
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AS109	CISCO SYSTEMS, INC.	206.126.237.85	2001:504:0:2::109:1
AS293	ESnet	206.126.236.137	2001:504:0:2::293:1
AS297	National Aeronautics and Space Administration	206.126.237.220	2001:504:0:2::297:1
AS577	Bell Canada	206.126.236.203	2001:504:0:2::577:1
AS600	OARnet	206.126.237.96	2001:504:0:2::600:1
AS668	DoD Network Information Center	206.126.237.62	2001:504:0:2::668:3
AS714	Apple Inc.	206.126.237.103 206.126.237.51	2001:504:0:2::714:1 2001:504:0:2::714:2
AS800	OneWeb	206.126.236.96	2001:504:0:2::800:1
AS812	Rogers Communications Canada Inc.	206.126.236.105	2001:504:0:2::812:1
AS835	GoCodeIT Inc	206.126.239.94	2001:504:0:2::835:1
AS917	Misaka Network, Inc.	206.126.236.214	2001:504:0:2:0:5:7695:1
AS998	HypeStatus Inc	206.126.237.41	
AS1031	PEER 1031 LLC	206.126.236.88	2001:504:0:2::1031:1
AS1273	Vodafone Group PLC	206.126.236.73	2001:504:0:2::1273:1



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Country: United States
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Technical Contact: support@equinix.com
Policy Contact: support@equinix.com
IPv4 Prefixes: 206.126.236.0/22
IPv6 Prefixes: 2001:504:0:2::/64

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AS42	WoodyNet, Inc.	206.126.236.111	2001:504:0:2::42:1
AS77	Johns Hopkins University Applied Physics Laboratory	206.126.239.78 206.126.239.77	
AS109	CISCO SYSTEMS, INC.	206.126.237.85	2001:504:0:2::109:1
AS293	ESnet	206.126.236.137	2001:504:0:2::293:1
AS297	National Aeronautics and Space Administration	206.126.237.220	2001:504:0:2::297:1
AS577	Bell Canada	206.126.236.203	2001:504:0:2::577:1
AS600	OARnet	206.126.237.96	2001:504:0:2::600:1
AS668	DoD Network Information Center	206.126.237.62	2001:504:0:2::668:3
AS714	Apple Inc.	206.126.237.103 206.126.237.51	2001:504:0:2::714:1 2001:504:0:2::714:2
AS800	OneWeb	206.126.236.96	2001:504:0:2::800:1
AS812	Rogers Communications Canada Inc.	206.126.236.105	2001:504:0:2::812:1
AS835	GoCodelT Inc	206.126.239.94	2001:504:0:2::835:1
AS917	Misaka Network, Inc.	206.126.236.214	2001:504:0:2:0:5:7695:1
AS998	HypeStatus Inc	206.126.237.41	
AS1031	PEER 1031 LLC	206.126.236.88	2001:504:0:2::1031:1
AS1273	Vodafone Group PLC	206.126.236.73	2001:504:0:2::1273:1
		206.126.236.186	





AS812	Rogers Comm	206.126.238.104	2001:504:0:2::812:1
AS835	GoCodeIT Inc	206.126.238.104	2001:504:0:2::835:1
AS917	Misaka Network, Inc.	206.126.236.214	2001:504:0:2:0:5:7695:1
AS998	HypeStatus Inc	206.126.237.41	
AS1031	PEER 1031 LLC	206.126.236.88	2001:504:0:2::1031:1
AS1273	Vodafone Group PLC	206.126.236.73	2001:504:0:2::1273:1
AS1424	Motorola Inc	206.126.236.186 206.126.236.206	
AS1640	Thacker-Grigsby Communications	206.126.236.157	
AS1820	WNET TELECOM USA Corp.	206.126.236.4	2001:504:0:2::1820:1
AS1828	Unitas Global	206.126.238.22	2001:504:0:2::1828:1
AS2497	Internet Initiative Japan Inc.	206.126.236.23	2001:504:0:2::2497:1
AS2552	Washington University	206.126.237.137	2001:504:0:2::2552:1
AS2559	VISA INTERNATIONAL SERVICE ASSOCIATION	206.126.238.43 206.126.238.44	
AS2603	NORDUnet	206.126.236.230	2001:504:0:2::2603:1
AS2635	Automattic, Inc	206.126.236.197 206.126.237.124	2001:504:0:2::2635:2 2001:504:0:2::2635:1
AS2647	ORANGE BUSINESS COMMUNICATIONS TECHNOLOGY LIMITED	206.126.236.153	2001:504:0:2::2647:1
AS2711	Spirit Communications	206.126.238.19	2001:504:0:2::2711:3
AS2828	Verizon Business	206.126.236.85	2001:504:0:2::2828:1
AS2906	Netflix Streaming Services Inc.	206.126.236.238 206.126.238.97	2001:504:0:2::2906:2 2001:504:0:2::2906:1
AS2914	NTT America, Inc.	206.126.236.12	2001:504:0:2::2914:1
AS3223	Voxility LLP	206.126.236.169	
AS3292	TDC Holding A/S	206.126.236.59	2001:504:0:2::3292:1
AS3300	British Telecommunications PLC	206.126.237.17	2001:504:0:2::3300:2
AS3303	Swisscom (Schweiz) AG	206.126.236.147	2001:504:0:2::3303:1
AS3320	Deutsche Telekom AG	206.126.236.94	2001:504:0:2::3320:2
AS3630	NYSERNet	206.126.236.146	2001:504:0:2::3630:1
AS3653	House of Ben Avraham LLC	206.126.239.90 206.126.239.89	2001:504:0:2::3653:2 2001:504:0:2::3653:1
AS3737	PenTeleData Inc.	206.126.236.133	2001:504:0:2::3737:1
AS3856	Packet Clearing House, Inc.	206.126.236.110	2001:504:0:2::3856:1
AS4181	TDS TELECOM	206.126.236.64	2001:504:0:2::4181:1
AS4229	Zenlayer Inc	206.126.237.131 206.126.237.98	2001:504:0:2::4229:1 2001:504:0:2:0:2:1859:1
AS4230	CLARO S.A.	206.126.237.55	2001:504:0:2::4230:1
AS4455	IX Reach Ltd	206.126.237.43	2001:504:0:2::4455:1
AS4557	Rice University	206.126.238.199	2001:504:0:2::4557:1
AS4637	Telstra Global	206.126.237.239	2001:504:0:2::4637:1
AS4775	Globe Telecoms	206.126.237.90	2001:504:0:2::4775:1
AS4826	Vocus Connect International Backbone	206.126.237.175	2001:504:0:2::4826:1
AS4922	Shenandoah Cable Television LLC	206.126.237.59	2001:504:0:2::4922:1
AS5400	British Telecommunications PLC	206.126.236.140	2001:504:0:2::5400:1
AS5402	Virgin Media Limited	206.126.236.231	



AS7784	Atlantech Online, November 5, 2024	206.126.2	2001:504:0:2::7784:1
AS7795	LUMOS Networks, Inc.	206.126.236.156	2001:504:0:2::7795:1
AS7843	Charter Communications Inc	206.126.238.34	2001:504:0:2::7843:1
AS7850	Tarakona Networks, LLC	206.126.238.16	2001:504:0:2::7850:1
AS7862	Chevron Corporation	206.126.237.44	2001:504:0:2::7862:1
AS8075	Microsoft Corporation	206.126.236.17 206.126.236.148	2001:504:0:2::8075:2 2001:504:0:2::8075:1
AS8220	COLT Technology Services Group Limited	206.126.238.64	2001:504:0:2::8220:1
AS8309	SIPARTECH SAS	206.126.237.197	2001:504:0:2::8309:1
AS8359	MTS PJSC	206.126.236.180	2001:504:0:2::8359:1
AS8360	Allianz Technology SE	206.126.237.8	
AS8674	Netnod AB	206.126.236.245	2001:504:0:2::8674:1
AS8781	Ooredoo Q.S.C.	206.126.236.181	2001:504:0:2::8781:1
AS8966	Etisalat - Emirates Telecommunications Corporation	206.126.237.12	2001:504:0:2::8966:1
AS10297	eNET Inc.	206.126.236.81	2001:504:0:2:0:1:297:1
AS10310	Oath Holdings Inc.	206.126.238.40 206.126.238.39 206.126.236.2 206.126.236.16	2001:504:0:2:0:1:310:3 2001:504:0:2:0:1:310:1 2001:504:0:2:0:1:310:4 2001:504:0:2:0:1:310:2
AS10423	STELLAR Broadband	206.126.238.57	2001:504:0:2:0:1:423:1
AS10745	ARIN Operations		2001:504:0:2:0:1:745:1
AS10967	The Home Depot Inc.	206.126.236.182 206.126.236.65	
AS11017	CSN Support Services	206.126.236.126	
AS11039	The George Washington University	206.126.236.172	2001:504:0:2:0:1:1039:1
AS11114	Wintek Corporation	206.126.236.15	2001:504:0:2:0:1:1114:1
AS11164	Internet2	206.126.236.45	2001:504:0:2:0:1:1164:1
AS11279	George Mason University	206.126.237.48	2001:504:0:2:0:1:1279:1
AS11377	SendGrid, Inc.	206.126.237.61 206.126.238.13	2001:504:0:2:0:1:1377:2 2001:504:0:2:0:1:1377:1
AS11686	Education Networks of America	206.126.237.198	2001:504:0:2:0:1:1686:1
AS11742	SpotX, Inc.	206.126.237.60 206.126.237.116	2001:504:0:2:0:1:1742:1 2001:504:0:2:0:1:1742:2
AS11758	IRIS Networks	206.126.237.171	2001:504:0:2:0:1:1758:1
AS11870	ALTICOR INC	206.126.237.244	2001:504:0:2:0:1:1870:1
AS12083	WideOpenWest Finance LLC	206.126.236.136	2001:504:0:2:0:1:2083:1
AS12085	Equinix, Inc.	206.126.237.249 206.126.237.248	2001:504:0:2:0:1:2085:1 2001:504:0:2:0:1:2085:2
AS12129	123.Net, Inc.	206.126.236.70	2001:504:0:2:0:1:2129:1
AS12189	PhoenixNAP LLC	206.126.237.26	2001:504:0:2:0:1:2189:1
AS12200	Rackspace Hosting	206.126.236.151	2001:504:0:2:0:1:2200:1
AS12322	Free SAS	206.126.236.160	2001:504:0:2:0:1:2322:1
AS12684	SES ASTRA S.A.	206.126.236.53	2001:504:0:2:0:1:2684:1
AS12956	TELEFONICA GLOBAL SOLUTIONS SL	206.126.236.107	2001:504:0:2:0:1:2956:1
AS13150	CATO NETWORKS LTD	206.126.237.167 206.126.236.166	





AS4455	IX Reach Ltd	206.126.237.199	2001:504:0:2::4455:1
AS4557	Rice University	206.126.238.199	2001:504:0:2::4557:1
AS4637	Telstra Global	206.126.237.239	2001:504:0:2::4637:1
AS4775	Globe Telecoms	206.126.237.90	2001:504:0:2::4775:1
AS4826	Vocus Connect International Backbone	206.126.237.175	2001:504:0:2::4826:1
AS4922	Shenandoah Cable Television LLC	206.126.237.59	2001:504:0:2::4922:1
AS5400	British Telecommunications PLC	206.126.236.140	2001:504:0:2::5400:1
AS5462	Virgin Media Limited	206.126.236.231	
AS5650	Frontier Communications of America, Inc.	206.126.237.215	2001:504:0:2::5650:2
AS6057	Administracion Nacional de Telecomunicaciones	206.126.236.189	2001:504:0:2::6057:1
AS6059	University System of Maryland	206.126.236.226	2001:504:0:2::6059:1
AS6079	RCN	206.126.236.25	2001:504:0:2::6079:1
AS6128	Cablevision Systems Corp.	206.126.236.150	2001:504:0:2::6128:1
AS6169	Kentik Technologies, Inc.	206.126.237.57	2001:504:0:2::6169:1
AS6181	Cincinnati Bell Telephone Company LLC	206.126.236.90	2001:504:0:2::6181:1
AS6204	INTERKVM HOST SRL	206.126.237.217	2001:504:0:2::6204:1
AS6307	American Express Company	206.126.238.15 206.126.238.14	
AS6447	University of Oregon	206.126.236.142	2001:504:0:2::6447:1
AS6461	Zayo Bandwidth	206.126.236.86	2001:504:0:2::6461:1
AS6507	Riot Games, Inc	206.126.237.152	2001:504:0:2::6507:1
AS6614	UNITED STATES CELLULAR TELEPHONE COMPANY (GREATER KNOXVILLE), L.P.	206.126.237.91 206.126.237.92	
AS6762	TELECOM ITALIA SPARKLE S.p.A.	206.126.236.6	2001:504:0:2::6762:1
AS6774	Belgacom International Carrier Services SA	206.126.236.228	2001:504:0:2::6774:1
AS6830	Liberty Global B.V.	206.126.236.117	2001:504:0:2::6830:1
AS6922	Texas Department of Information Resources	206.126.238.200	2001:504:0:2::6922:1
AS6939	Hurricane Electric LLC	206.126.236.37	2001:504:0:2::6939:1
AS7029	Windstream Communications LLC	206.126.237.16	2001:504:0:2::7029:1
AS7055	Quantum Internet Services, Inc.	206.126.237.139	2001:504:0:2::7055:1
AS7195	EDGEUNO S.A.S	206.126.238.207	2001:504:0:2::7195:1
AS7342	VeriSign Infrastructure & Operations	206.126.236.170	2001:504:0:2::7342:1
AS7713	PT Telekomunikasi Indonesia	206.126.237.47	2001:504:0:2::7713:1
AS7772	Schneider Automation, Inc.	206.126.237.72 206.126.236.253	
AS7784	Atlantech Online, Inc.	206.126.236.14	2001:504:0:2::7784:1
AS7795	LUMOS Networks, Inc.	206.126.236.156	2001:504:0:2::7795:1
AS7843	Charter Communications Inc	206.126.238.34	2001:504:0:2::7843:1
AS7850	Tarakona Networks, LLC	206.126.238.16	2001:504:0:2::7850:1
AS7862	Chevron Corporation	206.126.237.44	2001:504:0:2::7862:1
AS8075	Microsoft Corporation	206.126.236.17	2001:504:0:2::8075:2
AS8220	COLT Technology Services Group Limited	206.126.238.64	2001:504:0:2::8220:1





AS12684	SES ASTRA S	206.126.237.104	2001:504:0:2:0:1:3285:1
AS12956	TELEFONICA	206.126.237.104	2001:504:0:2:0:1:3335:1
AS13150	CATO NETWORKS LTD	206.126.237.167 206.126.236.166	2001:504:0:2:0:1:3335:2
AS13285	TalkTalk Communications Limited	206.126.237.64	2001:504:0:2:0:1:3414:2
AS13335	Cloudflare, Inc.	206.126.237.30 206.126.237.66	2001:504:0:2:0:1:3445:1
AS13414	Twitter Inc.	206.126.236.97	2001:504:0:2:0:1:3760:1
AS13445	Cisco Webex LLC	206.126.236.132	2001:504:0:2:0:1:3768:1
AS13760	Uniti Fiber Holdings Inc.	206.126.236.36	2001:504:0:2:0:1:3786:1
AS13768	Aptum Technologies	206.126.236.30	2001:504:0:2:0:1:3896:1
AS13786	Seabras 1 USA, LLC	206.126.236.247	2001:504:0:2:0:1:3984:1
AS13896	8x8, Inc.	206.126.238.31	2001:504:0:2:0:1:4277:1
AS13984	SD Data Center	206.126.236.79	2001:504:0:2:0:1:4340:1
AS14277	GiGstream	206.126.237.4	2001:504:0:2:0:1:4361:1
AS14340	Salesforce.com, Inc.	206.126.236.165	2001:504:0:2:0:1:4537:1
AS14361	HopOne Internet Corporation	206.126.236.91	2001:504:0:2:0:1:4593:1
AS14390	Coretel America, Inc.	206.126.236.63	2001:504:0:2:0:1:4609:1
AS14537	Continent 8 LLC	206.126.236.34	2001:504:0:2:0:1:4630:2
AS14593	Space Exploration Technologies Corporation	206.126.239.104	2001:504:0:2:0:1:4630:1
AS14609	Equinix, Inc.	206.126.239.254	2001:504:0:2:0:1:4713:1
AS14630	Invesco Group Services, Inc.	206.126.238.24 206.126.236.83	2001:504:0:2:0:1:4860:1
AS14713	Hosted Backbone	206.126.238.49	2001:504:0:2:0:1:4877:1
AS14829	Mindspark Interactive Network, Inc.	206.126.237.104	2001:504:0:2:0:1:4907:2
AS14860	SMARTCOM TELEPHONE, LLC	206.126.238.1	2001:504:0:2:0:1:4907:1
AS14877	FirstLight Fiber, Inc.	206.126.236.162	2001:504:0:2:0:1:5133:1
AS14907	Wikimedia Foundation Inc.	206.126.236.106 206.126.236.221	2001:504:0:2:0:1:5169:1
AS15133	Edgecast Inc.	206.126.236.112	2001:504:0:2:0:1:5169:2
AS15169	Google LLC	206.126.237.242 206.126.236.21	2001:504:0:2:0:1:5211:2
AS15211	Square, Inc.	206.126.237.145 206.126.237.146	2001:504:0:2:0:1:5211:1
AS15224	Adobe Inc.	206.126.237.150 206.126.237.50	2001:504:0:2:0:1:5224:1
AS15305	Syringa Networks, LLC	206.126.236.196	2001:504:0:2:0:1:5224:2
AS15412	FLAG TELECOM UK LIMITED	206.126.236.141	2001:504:0:2:0:1:5305:1
AS15695	Expereo International BV	206.126.237.151	2001:504:0:2:0:1:5412:1
AS15830	Equinix (EMEA) Acquisition Enterprises B.V.	206.126.237.213 206.126.237.214	2001:504:0:2:0:1:5695:1
AS16265	LeaseWeb Network B.V.	206.126.236.240	2001:504:0:2:0:1:5830:2
AS16276	OVH SAS	206.126.236.184	2001:504:0:2:0:1:5830:1
AS16406	Intermedia.net, Inc.	206.126.236.207	2001:504:0:2:0:1:6265:1
AS16409	PBW Communications, LLC	206.126.237.136	2001:504:0:2:0:1:6276:1
AS16509	Amazon.com, Inc.	206.126.236.68 206.126.236.35	2001:504:0:2:0:1:6406:1
AS16509	Amazon.com, Inc.	206.126.236.68 206.126.236.35	2001:504:0:2:0:1:6509:1
AS16509	Amazon.com, Inc.	206.126.236.68 206.126.236.35	2001:504:0:2:0:1:6509:2





AS16406	Intermedia.net Inc.	206.126.237.136	2001:504:0:2:0:1:6406:1
AS16409	PBW Communications, LLC	206.126.237.136	2001:504:0:2:0:1:6409:1
AS16509	Amazon.com, Inc.	206.126.236.68 206.126.236.35 206.126.237.188	2001:504:0:2:0:1:6509:1 2001:504:0:2:0:1:6509:2 2001:504:0:2:0:1:6509:3
AS16524	MetTel	206.126.238.190	2001:504:0:2:0:1:6524:1
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AS16559	REALCONNECT 01	206.126.236.26	2001:504:0:2:0:1:6559:1
AS16591	Google Fiber Inc.	206.126.237.101	2001:504:0:2:0:1:6591:1
AS16684	Norfolk Southern Railway Company	206.126.238.197 206.126.238.198	
AS16735	ALGAR TELECOM S/A	206.126.236.205	2001:504:0:2:0:1:6735:1
AS17012	PayPal, Inc.	206.126.237.163 206.126.237.162	2001:504:0:2:0:1:7012:2 2001:504:0:2:0:1:7012:1
AS17054	Expedient	206.126.237.36	
AS17310	Point Broadband Fiber Holding, LLC	206.126.237.128	2001:504:0:2:0:1:7310:1
AS17350	Moody's Corp.	206.126.238.208 206.126.238.209	2001:504:0:2:0:1:7350:1 2001:504:0:2:0:1:7350:2
AS17378	TierPoint, LLC	206.126.237.127	2001:504:0:2:0:1:7378:1
AS17978	SERVCORP AUSTRALIAN HOLDINGS LTD	206.126.237.166	
AS18106	Viewqwest Pte Ltd	206.126.237.54	2001:504:0:2:0:1:8106:1
AS18568	Bidtellect Inc.	206.126.236.250	
AS18888	ZILLOW, INC.	206.126.236.222	2001:504:0:2:0:1:8888:1
AS19009	OneCleveland	206.126.237.117	2001:504:0:2:0:1:9009:2
AS19108	Optimum	206.126.236.72	2001:504:0:2:0:1:9108:1
AS19151	BroadbandONE, LLC	206.126.236.47	2001:504:0:2:0:1:9151:1
AS19551	Incapsula Inc	206.126.237.203	2001:504:0:2:0:1:9551:1
AS19653	CTS Communications Corp	206.126.236.134	2001:504:0:2:0:1:9653:1
AS19679	Dropbox, Inc.	206.126.236.74	2001:504:0:2:0:1:9679:1
AS19750	Criteo Corp.	206.126.238.110	2001:504:0:2:0:1:9750:1
AS19783	APPRISS INC	206.126.238.23	2001:504:0:2:0:1:9783:1
AS20021	Ntirety, Inc.	206.126.238.74	2001:504:0:2:0:2:21:1
AS20115	Charter Communications	206.126.236.115	2001:504:0:2:0:2:115:1
AS20253	Qwilt Inc.	206.126.238.215 206.126.236.154	2001:504:0:2:0:2:253:1 2001:504:0:2:0:2:253:2
AS20326	TeraSwitch Networks Inc.	206.126.236.7	2001:504:0:2:0:2:326:1
AS20340	ISPHONE, INC.	206.126.237.177	
AS20940	Akamai International B.V.	206.126.236.102 206.126.239.93 206.126.236.103	2001:504:0:2:0:2:940:5 2001:504:0:2:0:2:940:1 2001:504:0:2:0:2:940:2
AS21559	OSNET Wireless	206.126.236.82	2001:504:0:2:0:2:1559:1
AS21808	Peerless Network Inc	206.126.236.10	
AS21886	Ricoh USA, Inc.	206.126.238.95	2001:504:0:2:0:2:1886:1
AS21949	Beanfield Technologies Inc.	206.126.238.149	2001:504:0:2:0:2:1949:1
AS21976	NJEDge.Net, Inc.	206.126.237.71	2001:504:0:2:0:2:1976:1



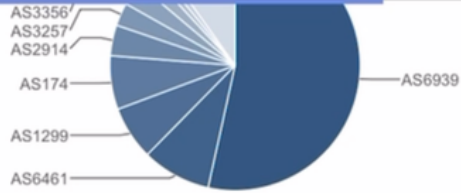
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AS21808	Peerless Netw...	206.126.236.11	
AS21886	Ricoh USA, In...	206.126.2...	
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AS21976	NJEDGE.Net, Inc.	206.126.237.71	2001:504:0:2:0:2:1976:1
AS22299	GCR Company/GCR Online	206.126.238.10	2001:504:0:2:0:2:2299:1
AS22616	ZSCALER, INC.	206.126.236.212 206.126.237.212	
AS22697	Roblox	206.126.238.148 206.126.238.48	2001:504:0:2:0:2:2697:2 2001:504:0:2:0:2:2697:1
AS22792	MOUNTAINET	206.126.236.104	2001:504:0:2:0:2:2792:1
AS22822	Limelight Networks, Inc.	206.126.236.123 206.126.237.192	2001:504:0:2:0:2:2822:1 2001:504:0:2:0:2:2822:3
AS22925	Allied Telecom Group, LLC	206.126.237.76	2001:504:0:2:0:2:2925:1
AS22987	BrightRidge	206.126.238.75	2001:504:0:2:0:2:2987:1
AS23114	Critical Hub Networks	206.126.236.201	2001:504:0:2:0:2:3114:1
AS23274	Priceline.com	206.126.237.73	2001:504:0:2:0:2:3274:1
AS23550	HUB Advanced Networks, LLC	206.126.237.97	2001:504:0:2:0:2:3550:1
AS24115	Equinix	206.126.239.252 206.126.239.251	2001:504:0:2:ffff:ffff:ffff:2 2001:504:0:2:ffff:ffff:ffff:1
AS24429	Zhejiang Taobao Network Co.,Ltd	206.126.238.82 206.126.239.80	
AS24482	SG.GS	206.126.237.122	2001:504:0:2:0:2:4482:1
AS25180	Exponential-E Ltd.	206.126.237.170	2001:504:0:2:0:3:3419:2
AS26133	Frankfort Plant Board	206.126.237.243	
AS26459	The Trade Desk, Inc.	206.126.238.58 206.126.238.63	2001:504:0:2:0:2:6459:2 2001:504:0:2:0:2:6459:1
AS26479	Point Broadband Fiber Holding, LLC	206.126.237.79	2001:504:0:2:0:2:6479:1
AS26496	GoDaddy.com, LLC	206.126.236.43	2001:504:0:2:0:2:6496:1
AS26554	US Signal Company, L.L.C.	206.126.237.80	2001:504:0:2:0:2:6554:1
AS26667	The Rubicon Project, Inc.	206.126.237.164 206.126.237.165	2001:504:0:2:0:2:6667:2 2001:504:0:2:0:2:6667:1
AS26744	Planters Communications, LLC	206.126.237.130	2001:504:0:2:0:2:6744:131
AS26762	Conversant, LLC	206.126.237.159 206.126.237.160	2001:504:0:2:0:2:5751:1 2001:504:0:2:0:2:5751:2
AS26827	EPB Fiber Optics	206.126.236.217	2001:504:0:2:0:2:6827:1
AS26930	Parallax	206.126.239.105	2001:504:0:2:0:2:6930:1
AS27026	networkMaryland	206.126.236.144	2001:504:0:2:0:2:7026:1
AS27202	City of Bardstown, Kentucky	206.126.238.80	
AS27281	Quantcast Corporation	206.126.238.59 206.126.238.60	2001:504:0:2:0:2:7281:1 2001:504:0:2:0:2:7281:2
AS27381	Index Exchange Inc.	206.126.237.28 206.126.237.149	
AS27524	OCTALION INC.	206.126.236.152	
AS27630	XFERNET	206.126.237.157	2001:504:0:2:0:2:7630:1
AS28283	Adylnet Telecom	206.126.237.190	2001:504:0:2:0:2:8283:1
AS29748	Quality Technology Services, LLC	206.126.236.135	2001:504:0:2:0:2:9748:1
AS29838	Atlantic Metro Communications II, Inc.	206.126.237.9	2001:504:0:2:0:2:9838:1
AS29933	FirstDigital Communications, LLC	206.126.236.225	2001:504:0:2:0:2:9933:1

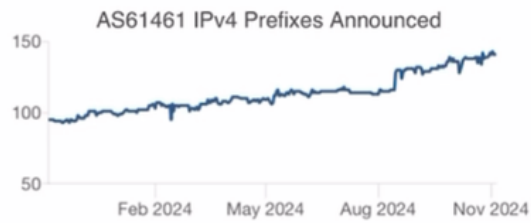


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AS29748	Quality Technology Services, LLC	206.126.236.135	2001:504:0:2:0:2:9748:1
AS29838	Atlantic Metro Communications II, Inc.	206.126.237.9	2001:504:0:2:0:2:9838:1
AS29933	FirstDigital Communications, LLC	206.126.236.225	2001:504:0:2:0:2:9933:1
AS30081	CacheNetworks, Inc.	206.126.237.2	2001:504:0:2:0:3:81:1
AS30094	Giganews, Inc.	206.126.236.159	2001:504:0:2:0:3:94:1
AS30103	Zoom Video Communications, Inc	206.126.239.82 206.126.239.81	2001:504:0:2:0:3:103:2 2001:504:0:2:0:3:103:1
AS30600	Metronet	206.126.239.57	2001:504:0:2:0:3:600:1
AS31800	DALnet	206.126.236.138	
AS31898	Oracle Corporation	206.126.236.113	2001:504:0:2:0:3:1898:2
AS32098	Transtelco Inc	206.126.236.58	2001:504:0:2:0:3:2098:1
AS32133	Ting Fiber Inc.	206.126.237.77 206.126.237.178	2001:504:0:2:0:39:4497:1 2001:504:0:2:0:39:4497:2
AS32181	GigeNET	206.126.237.81	2001:504:0:2:0:3:2181:1
AS32244	Liquid Web, L.L.C	206.126.238.138	2001:504:0:2:0:3:2244:1
AS32261	SUBSPACE	206.126.237.3	2001:504:0:2:0:3:2261:1
AS32286	TripAdvisor LLC	206.126.237.138 206.126.237.84	2001:504:0:2:0:3:2286:2 2001:504:0:2:0:3:2286:3
AS32308	8x8, Inc.	206.126.237.120 206.126.237.112	
AS32425	Pixel Factory	206.126.237.158	2001:504:0:2:0:3:2425:1
AS32478	IT Vocal LLC	206.126.236.18	2001:504:0:2:0:3:2478:1
AS32590	Valve Corporation	206.126.237.222 206.126.237.32	2001:504:0:2:0:3:2590:2 2001:504:0:2:0:3:2590:1
AS32787	Akamai Technologies, Inc.	206.126.236.219	2001:504:0:2:0:3:2787:1
AS32934	Facebook, Inc.	206.126.236.183 206.126.236.191	2001:504:0:2:0:3:2934:1 2001:504:0:2:0:3:2934:2
AS33353	Sony Interactive Entertainment LLC	206.126.237.115	2001:504:0:2:0:3:3353:1
AS33412	Keepit A/S	206.126.238.94	2001:504:0:2:0:3:3412:1
AS33419	Exponential Interactive, Inc.	206.126.236.11	2001:504:0:2:0:3:3419:1
AS33425	CoreWeave, Inc	206.126.237.94 206.126.237.37	2001:504:0:2:0:3:3425:1 2001:504:0:2:0:3:3425:2
AS33445	Yelp! Inc.	206.126.237.187	2001:504:0:2:0:3:3445:1
AS33566	Knoxville Utilities Board	206.126.237.229	2001:504:0:2:0:3:3566:1
AS33604	Burlington Telecom	206.126.237.11	2001:504:0:2:0:3:3604:1
AS35280	F5 Networks SARL	206.126.238.91	2001:504:0:2:0:3:5280:1
AS36236	NetActuate, Inc	206.126.236.3	2001:504:0:2:0:3:6236:1
AS36351	SoftLayer Technologies Inc.	206.126.236.185 206.126.237.199	2001:504:0:2:0:3:6351:2 2001:504:0:2:0:3:6351:1
AS36459	GitHub, Inc.	206.126.237.205 206.126.237.27	2001:504:0:2:0:3:6489:2 2001:504:0:2:0:3:6489:1
AS36692	Cisco OpenDNS, LLC	206.126.236.128	2001:504:0:2:0:3:6692:1
AS37468	Angola Cables	206.126.238.56	2001:504:0:2:0:3:7468:1
AS37721	Virtual Technologies & Solutions	206.126.236.40	2001:504:0:2:0:3:7721:1
AS39386	Saudi Telecom Company JSC	206.126.238.66	2001:504:0:2:0:3:9386:1





ASN	Name
AS6939	Hurricane Electric LLC
AS6461	Zayo Bandwidth
AS1299	Arelion Sweden AB
AS174	Cogent Communications
AS2914	NTT America, Inc.
AS3257	GTT Communications Inc.
AS3356	Level 3 Parent, LLC
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS25091	IP-Max SA
AS271907	COLNETWORK C.A.





AS40217	The St. Paul Group	206.126.236.27	2001:504:0:2:0:4:247:1
AS40220	Virginia Polytechnic Institute and State Univ.	206.126.236.27	2001:504:0:2:0:4:247:1
AS40428	Pandora Media, LLC	206.126.236.192	2001:504:0:2:0:4:428:1
AS40526	Gap, Inc. Direct	206.126.237.246 206.126.237.247	
AS40627	RingCentral Inc	206.126.236.232	
AS40676	Psychz Networks	206.126.236.167	2001:504:0:2:0:4:676:1
AS40934	Fortinet Inc.	206.126.236.76 206.126.236.218	2001:504:0:2:0:4:934:2 2001:504:0:2:0:4:934:1
AS41095	IPTP LTD	206.126.236.120	2001:504:0:2:0:4:1095:1
AS42473	ANEXIA Internetdienstleistungs GmbH	206.126.237.95	2001:504:0:2:0:4:2473:1
AS45102	Alibaba (US) Technology Co., Ltd.	206.126.237.184 206.126.238.65	2001:504:0:2:0:4:5102:1 2001:504:0:2:0:4:5102:2
AS45758	APNIC ASN block	206.126.237.75	2001:504:0:2:0:4:5758:1
AS46261	QuickPacket, LLC	206.126.237.25	2001:504:0:2:0:4:6261:1
AS46450	Pilot Fiber, Inc.	206.126.238.2	2001:504:0:2:0:4:6450:1
AS46489	Twitch Interactive Inc.	206.126.237.193 206.126.236.193	2001:504:0:2:0:4:6489:2 2001:504:0:2:0:4:6489:1
AS46616	Westinghouse Electric Company LLC	206.126.237.6	2001:504:0:2:0:4:6616:1
AS46887	Crown Castle Fiber LLC	206.126.237.148	2001:504:0:2:0:4:6887:1
AS49544	i3D.net B.V	206.126.237.210	2001:504:0:2:0:4:9544:1
AS52320	GlobeNet Cabos Submarinos Colombia, S.A.S.	206.126.237.123	2001:504:0:2:0:5:2320:1
AS52580	Azion Technologies Ltda.	206.126.239.65	2001:504:0:2:0:5:2580:1
AS53334	Total Uptime Technologies, LLC	206.126.238.52	2001:504:0:2:0:5:3334:1
AS53684	Centre WISP Venture Company	206.126.239.91	2001:504:0:2:0:5:3684:1
AS53764	DM Wireless LLC	206.126.239.83	2001:504:0:2:0:5:3764:1
AS53766	VMWare, Inc.	206.126.239.58 206.126.239.59	2001:504:0:2:0:5:3766:2 2001:504:0:2:0:5:3766:3
AS53991	Acronis	206.126.236.161	2001:504:0:2:0:1:5399:1
AS54054	Deteque	206.126.237.179	2001:504:0:2:0:5:4054:1
AS54113	Fastly, Inc.	206.126.237.168 206.126.237.169	2001:504:0:2:0:5:4113:1 2001:504:0:2:0:5:4113:2
AS54641	InMotion Hosting, Inc.	206.126.236.236	2001:504:0:2:0:5:4641:1
AS54825	Packet Host, Inc.	206.126.238.202 206.126.238.87	2001:504:0:2:0:5:4825:2 2001:504:0:2:0:5:4825:1
AS54827	Huntington Bancshares Inc.	206.126.238.76 206.126.238.77	
AS54994	Metaverse Limited.	206.126.236.67	2001:504:0:2:0:5:4994:1
AS55182	Texas Capital Bank, N.A.	206.126.238.46 206.126.238.47	2001:504:0:2:0:5:5182:2 2001:504:0:2:0:5:5182:1
AS55219	Cisco Systems, Inc.	206.126.237.195 206.126.237.194	2001:504:0:2:0:5:5219:2 2001:504:0:2:0:5:5219:1
AS55247	Ivalua Inc.	206.126.238.55	2001:504:0:2:0:5:5247:1
AS57976	Blizzard Entertainment, Inc	206.126.237.174	2001:504:0:2:0:5:7976:1
AS58580	Fastrack Technology	206.126.237.121	
AS58715	EARTH TELECOMMUNICATION (Pvt) LTD.	206.126.237.216	2001:504:0:2:0:5:8715:1
AS59865	Ivent Mobile BV	206.126.236.88	2001:504:0:2:0:5:9865:1
AS60171	AFR-IX TELECOM SAU	206.126.238.93	2001:504:0:2:0:6:171:1

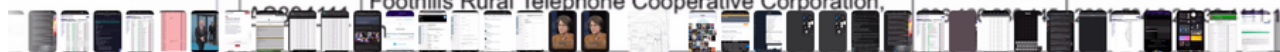


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AS32308	8x8, Inc.	206.126.237.91	2001:504:0:2:0:3:2425:1
AS32425	Pixel Factory	206.126.237.158	2001:504:0:2:0:3:2425:1
AS32478	IT Vocal LLC	206.126.236.18	2001:504:0:2:0:3:2478:1
AS32590	Valve Corporation	206.126.237.222 206.126.237.32	2001:504:0:2:0:3:2590:2 2001:504:0:2:0:3:2590:1
AS32787	Akamai Technologies, Inc.	206.126.236.219	2001:504:0:2:0:3:2787:1
AS32934	Facebook, Inc.	206.126.236.183 206.126.236.191	2001:504:0:2:0:3:2934:1 2001:504:0:2:0:3:2934:2
AS33353	Sony Interactive Entertainment LLC	206.126.237.115	2001:504:0:2:0:3:3353:1
AS33412	Keepit A/S	206.126.238.94	2001:504:0:2:0:3:3412:1
AS33419	Exponential Interactive, Inc.	206.126.236.11	2001:504:0:2:0:3:3419:1
AS33425	CoreWeave, Inc	206.126.237.94 206.126.237.37	2001:504:0:2:0:3:3425:1 2001:504:0:2:0:3:3425:2
AS33445	Yelp! Inc.	206.126.237.187	2001:504:0:2:0:3:3445:1
AS33566	Knoxville Utilities Board	206.126.237.229	2001:504:0:2:0:3:3566:1
AS33604	Burlington Telecom	206.126.237.11	2001:504:0:2:0:3:3604:1
AS35280	F5 Networks SARL	206.126.238.91	2001:504:0:2:0:3:5280:1
AS36236	NetActuate, Inc	206.126.236.3	2001:504:0:2:0:3:6236:1
AS36351	SoftLayer Technologies Inc.	206.126.236.185 206.126.237.199	2001:504:0:2:0:3:6351:2 2001:504:0:2:0:3:6351:1
AS36459	GitHub, Inc.	206.126.237.205 206.126.237.27	2001:504:0:2:0:3:6489:2 2001:504:0:2:0:3:6489:1
AS36692	Cisco OpenDNS, LLC	206.126.236.128	2001:504:0:2:0:3:6692:1
AS37468	Angola Cables	206.126.238.56	2001:504:0:2:0:3:7468:1
AS37721	Virtual Technologies & Solutions	206.126.236.40	2001:504:0:2:0:3:7721:1
AS39386	Saudi Telecom Company JSC	206.126.238.66	2001:504:0:2:0:3:9386:1
AS39572	DataWeb Global Group B.V.	206.126.239.61	2001:504:0:2:0:7:7627:1
AS40128	Morristown Utility Systems	206.126.236.211	
AS40217	The St. Paul Group	206.126.238.27	2001:504:0:2:0:4:217:1
AS40220	Virginia Polytechnic Institute and State Univ.	206.126.236.139	2001:504:0:2:0:4:220:1
AS40428	Pandora Media, LLC	206.126.236.192	2001:504:0:2:0:4:428:1
AS40526	Gap, Inc. Direct	206.126.237.246 206.126.237.247	
AS40627	RingCentral Inc	206.126.236.232	
AS40676	Psychz Networks	206.126.236.167	2001:504:0:2:0:4:676:1
AS40934	Fortinet Inc.	206.126.236.76 206.126.236.218	2001:504:0:2:0:4:934:2 2001:504:0:2:0:4:934:1
AS41095	IPTP LTD	206.126.236.120	2001:504:0:2:0:4:1095:1
AS42473	ANEXIA Internetdienstleistungs GmbH	206.126.237.95	2001:504:0:2:0:4:2473:1
AS45102	Alibaba (US) Technology Co., Ltd.	206.126.237.184 206.126.238.65	2001:504:0:2:0:4:5102:1 2001:504:0:2:0:4:5102:2
AS45758	APNIC ASN block	206.126.237.75	2001:504:0:2:0:4:5758:1
AS46261	QuickPacket, LLC	206.126.237.25	2001:504:0:2:0:4:6261:1
AS46450	Pilot Fiber, Inc	206.126.238.2	2001:504:0:2:0:4:6450:1
AS46489	Twitter, Inc.	206.126.237.193	2001:504:0:2:0:4:6489:2



AS57976	Blizzard Entertainment	206.126.237.172	2001:504:0:2:0:5:8715:1
AS58580	Fastrack Technologies	206.126.237.172	2001:504:0:2:0:5:8715:1
AS58715	EARTH TELECOMMUNICATION (Pvt) LTD.	206.126.237.216	2001:504:0:2:0:5:8715:1
AS59865	Ivent Mobile bv	206.126.238.88	2001:504:0:2:0:5:9865:1
AS60171	AFR-IX TELECOM SAU	206.126.238.93	2001:504:0:2:0:6:171:1
AS60890	CentralNic Ltd	206.126.236.9	2001:504:0:2:0:6:890:1
AS61461	Airtek Solutions C.A.	206.126.236.143	2001:504:0:2:0:6:1461:1
AS62296	Vital Network Group, LLC	206.126.238.30	2001:504:0:2:0:6:2296:1
AS62642	Bigleaf Networks, Inc.	206.126.239.70	
AS62713	PubMatic, Inc.	206.126.239.79	
AS62715	CrashPlan	206.126.237.111	2001:504:0:2:0:6:2715:1
AS62856	Docusign, Inc	206.126.238.196	2001:504:0:2:0:6:2856:1
AS62887	WhiteSky Communications, LLC.	206.126.237.58	2001:504:0:2:0:6:2887:1
AS62947	Iron Mountain Data Center	206.126.238.28	2001:504:0:2:0:6:2947:1
AS62955	eBay, Inc	206.126.236.224	2001:504:0:2:0:6:2955:1
AS63086	Uber Technologies, Inc	206.126.237.191 206.126.237.189	
AS63113	Globecorp Networks	206.126.239.12	
AS63383	Single Digits, Inc.	206.126.237.140	
AS64208	Dell, Inc.	206.126.237.176	2001:504:0:2:0:6:4208:1
AS64213	ERC Broadband	206.126.237.227	2001:504:0:2:0:6:4213:1
AS132203	Tencent Building, Kejizhongyi Avenue	206.126.238.36 206.126.238.37	2001:504:0:2:0:13:2203:2 2001:504:0:2:0:13:2203:3
AS137409	GSL Networks Pty LTD	206.126.239.68	2001:504:0:2:0:13:7409:1
AS138915	Kaopu Cloud HK Limited	206.126.239.64	2001:504:0:2:0:13:8915:1
AS139057	LEGEND DYNASTY PTE. LTD.	206.126.236.24	2001:504:0:2:0:13:4832:1
AS139341	ACEVILLE PTE.LTD.	206.126.237.144	2001:504:0:2:0:13:9341:1
AS197981	SAS INTERCLOUD	206.126.236.129	2001:504:0:2:0:19:7981:1
AS199330	CentralNic Ltd	206.126.237.211	2001:504:0:2:0:19:9330:1
AS199524	G-Core Labs S.A.	206.126.237.22	2001:504:0:2:0:19:9524:1
AS203724	Musarubra Germany GmbH	206.126.237.182 206.126.237.183	2001:504:0:2:0:20:3724:1 2001:504:0:2:0:20:3724:2
AS206264	Amarutu Technology Ltd	206.126.237.40	2001:504:0:2:0:20:6264:1
AS209453	GANDI SAS	206.126.236.5	2001:504:0:2:0:2:9169:1
AS262589	SAMM TECNOLOGIA E TELECOMUNICACOES S.A	206.126.237.231	2001:504:0:2:0:26:2589:1
AS267613	ELETRONET S.A.	206.126.237.100	2001:504:0:2:0:26:7613:3
AS393225	ARIN Operations	206.126.236.124	2001:504:0:2:0:39:3225:1
AS393490	Verizon Business	206.126.237.118	
AS393565	MaxPoint Interactive, Inc.	206.126.237.134	
AS393713	All Points Broadband	206.126.237.142	2001:504:0:2:0:39:3713:1
AS393731	Fusion Voice and Data Corp.	206.126.236.179	
AS393891	Nutrien	206.126.236.113	2001:504:0:2:0:39:3891:1
AS393891	Foothills Rural Telephone Cooperative Corporation	206.126.236.113	2001:504:0:2:0:39:3891:1



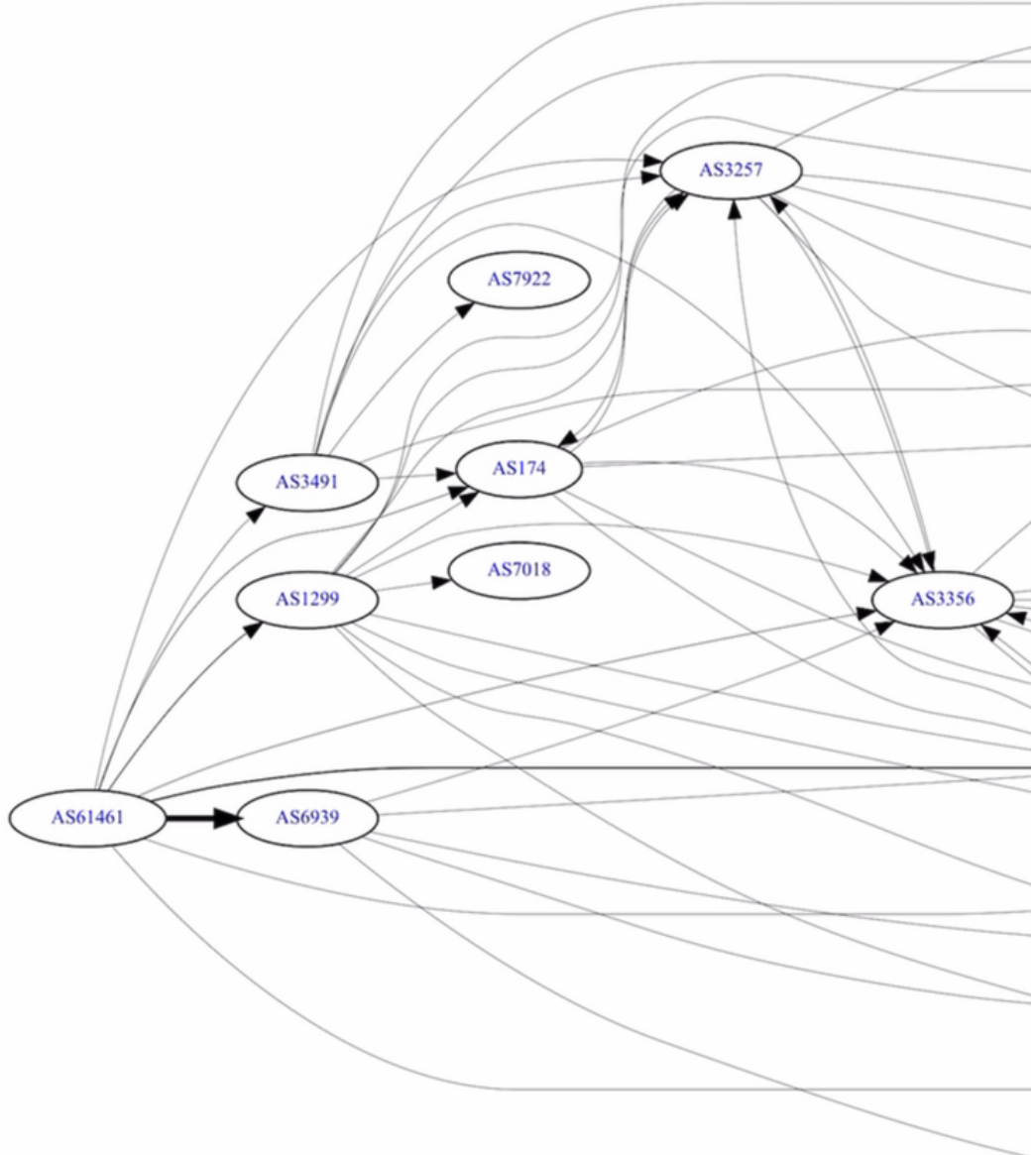


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- ternet Statistics
- oking Glass
- etwork Tools App
- 'ee IPv6 Tunnel
- 'v6 Certification
- 'v6 Progress
- oing Native
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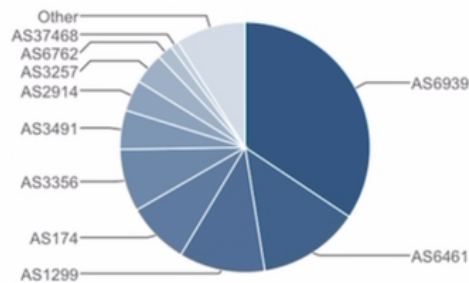
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Company Website: <http://www.airtekinternet.com>
 Country of Origin: [Venezuela, Bolivarian Republic of](#)
 Internet Exchanges: 7
 Prefixes Originated (all): 67
 Prefixes Originated (v4): 37
 Prefixes Originated (v6): 30
 Prefixes Announced (all): 181
 Prefixes Announced (v4): 141
 Prefixes Announced (v6): 40
 RPKI Originated Valid (all): 44
 RPKI Originated Valid (v4): 14
 RPKI Originated Valid (v6): 30
 RPKI Originated Invalid (all): 0
 RPKI Originated Invalid (v4): 0
 RPKI Originated Invalid (v6): 0
 BGP Peers Observed (all): 78
 BGP Peers Observed (v4): 70
 BGP Peers Observed (v6): 56
 IPs Originated (v4): 264,960
 AS Paths Observed (v4): 1,140
 AS Paths Observed (v6): 572
 Average AS Path Length (all): 3.248
 Average AS Path Length (v4): 3.322
 Average AS Path Length (v6): 3.100

AS61461 IPv4 Peers



ASN	Name
AS6939	Hurricane Electric LLC
AS6461	Zayo Bandwidth
AS1299	Arelion Sweden AB
AS174	Cogent Communications
AS3356	Level 3 Parent, LLC
AS3491	PCCW Global, Inc.
AS2914	NTT America, Inc.
AS3257	GTT Communications Inc.
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS37468	Angola Cables
Other	

AS61461 Airtek Solutions C.A.

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etwork Tools App							
ree IPv6 Tunnel							
v6 Certification							
v6 Progress							
oing Native							
redits							
ontact Us							
Rank	Description					IPv6	Peer
1	Hurricane Electric LLC					 X	AS6939
2	Zayo Bandwidth					 X	AS6461
3	Arelion Sweden AB					 X	AS1299
4	Cogent Communications					 X	AS174
5	Level 3 Parent, LLC					 X	AS3356
6	PCCW Global, Inc.						AS3491
7	NTT America, Inc.					 X	AS2914
8	GTT Communications Inc.					 X	AS3257
9	TELECOM ITALIA SPARKLE S.p.A.					 X	AS6762
10	Angola Cables					 X	AS37468
11	GSL Networks Pty LTD					 X	AS137405
12	ALGAR TELECOM S/A					 X	AS16735
13	Seabras 1 USA, LLC					 X	AS13786
14	COLNETWORK C.A.					 X	AS271907
15	TECNOVEN SERVICES CA						AS269730
16	GlobeNet Cabos Submarinos Colombia, S.A.S.					 X	AS52320
17	EDGEUNO S.A.S						AS7195
18	GIGAPOP, C.A.					 X	AS271895
19	TotalCom Venezuela C.A.					 X	AS264778
20	SAMM TECNOLOGIA E TELECOMUNICACOES S.A					 X	AS262585
21	PowerHost Telecom SPA						AS263237
22	Vocus Connect International Backbone					 X	AS4826
23	Administracion Nacional de Telecomunicaciones					 X	AS6057
24	ALOO TELECOM - FSF TECNOLOGIA SA						AS61568
25	BHARTI Airtel Ltd.						AS9498
26	Florida International University					 X	AS20080
27	SG.GS					 X	AS24482
28	MAXI CABLE C.A						AS272857



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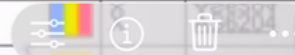
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Prefix	Description	Visibility
2803:d700::/32	Airtek Solutions C.A.	100% 621/621
2803:d700:2000::/40	Airtek Solutions C.A.	100% 621/621
2803:d700:7000::/40	Airtek Solutions C.A.	100% 621/621
2803:d700:8100::/40	Airtek Solutions C.A.	100% 621/621
2803:d700:8400::/40	Airtek Solutions C.A.	100% 621/621
2803:d700:8500::/40	Airtek Solutions C.A.	100% 621/621
2803:d700:8600::/40	Airtek Solutions C.A.	100% 621/621
2803:d700:8a00::/40	Airtek Solutions C.A.	100% 621/621
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32	INTERKVM HOSTING LTD		X	AS2098029
33	MARACAIBO NETWORK S.A.			AS2098029
34	China Mobile International Limited			AS58453
35	Durand do Brasil Ltda			AS22356
36	NETWORK INNOVATIONS, LLC			AS53828
37	DOMINICAN CABLE GROUP DCG, S.R.L.		X	AS64126
38	The George Washington University		X	AS11039
39	UFINET PANAMA S.A.		X	AS52468
40	BroadbandONE, LLC		X	AS19151
41	LINK BRASIL TELECOMUNICACOES LTDA			AS271253
42	IP-Max SA		X	AS25091
43	NetIX Communications JSC			AS57463
44	GIGABITS TELECOM, C.A.		X	AS271880
45	Tiggee LLC		X	AS16552
46	Reseaux IP Europeens Network Coordination Centre (RIPE NCC)		X	AS25152
47	Host Leasing Corporation		X	AS15280
48	IGUANA NETWORK SERVICES C.A.			AS270073
49	University of Vermont		X	AS1351
50	NetActuate, Inc		X	AS36236
51	Misaka Network, Inc.		X	AS57695
52	CORPORACION MATRIX TV, C.A.			AS269984
53	Rede Nacional de Ensino e Pesquisa		X	AS1916
54	Macarne LLC			AS64289
55	WAYIRA NET S.A.S.			AS272855
56	Datacamp Limited			AS60068
57	Unitas Global		X	AS1828
58	Videotron Ltee			AS22652
59				AS263005
60	The Fusion Network, LLC		X	AS19754
61	PEER 1031 LLC			AS1031
62	GTT Communications Inc.		X	AS286
63	BR.Digital Provider		X	AS14840
64	GRUPO YAX		X	AS264405
65	Virtual Technologies & Solutions		X	AS37721
66	Rackdog, LLC		X	AS398465
67	FRESH TECHS C.A.			AS267811
68	Qwilt Inc.		X	AS20253
69	DIT-US			AS22850
70	G-Core Labs S.A.		X	AS199524



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11	USE Networks P			
12	ALGAR TELECOM S.A.			AS137405
13	Seabras 1 USA, LLC		X	AS13786
14	COLNETWORK C.A.		X	AS271901
15	TECNOVEN SERVICES CA			AS269730
16	GlobeNet Cabos Submarinos Colombia, S.A.S.		X	AS52320
17	EDGEUNO S.A.S			AS7195
18	GIGAPOP, C.A.		X	AS271895
19	TotalCom Venezuela C.A.		X	AS264778
20	SAMM TECNOLOGIA E TELECOMUNICACOES S.A		X	AS262585
21	PowerHost Telecom SPA			AS263237
22	Vocus Connect International Backbone		X	AS4826
23	Administracion Nacional de Telecomunicaciones		X	AS6057
24	ALOO TELECOM - FSF TECNOLOGIA SA			AS61568
25	BHARTI Airtel Ltd.			AS9498
26	Florida International University		X	AS20080
27	SG.GS		X	AS24482
28	MAXI CABLE C.A			AS272857
29	Reseaux IP Europeens Network Coordination Centre (RIPE NCC)		X	AS197000
30	NETWORK SPEED C.A		X	AS269782
31	Wikimedia Foundation Inc.		X	AS14907
32	INTERKVM HOST SRL		X	AS6204
33	MARACAIBO NET C.A		X	AS269825
34	China Mobile International Limited			AS58453
35	Durand do Brasil Ltda			AS22356
36	NETWORK INNOVATIONS, LLC			AS53828
37	DOMINICAN CABLE GROUP DCG, S.R.L.		X	AS64126
38	The George Washington University		X	AS11039
39	UFINET PANAMA S.A.		X	AS52468
40	BroadbandONE, LLC		X	AS19151
41	LINK BRASIL TELECOMUNICACOES LTDA			AS271253
42	IP-Max SA		X	AS25091
43	NetIX Communications JSC			AS57463
44	GIGABITS TELECOM, C.A.		X	AS271880
45	Tiggee LLC		X	AS16552
46	Reseaux IP Europeens Network Coordination Centre (RIPE NCC)		X	AS25152
47	Host Leasing Corporation		X	AS15280
48	ICUANA NETWORK SERVICES S.A.			AS270073
49	University of Vermont		X	AS1351





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Prefix		Description	Visibility
2803:d700::/32		Airtek Solutions C.A.	100% 621/621
2803:d700:2000::/40		Airtek Solutions C.A.	100% 621/621
2803:d700:7000::/40		Airtek Solutions C.A.	100% 621/621
2803:d700:8100::/40		Airtek Solutions C.A.	100% 621/621
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DNS Report
IP Host Report
Internet Statistics
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Network Tools App
Free IPv6 Tunnel
IPv6 Certification
IPv6 Progress
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Rank	Description	IPv6	Peer
1	Hurricane Electric LLC	X	AS6939
2	Zayo Bandwidth	X	AS6461
3	Arelion Sweden AB	X	AS1299
4	Cogent Communications	X	AS174
5	Level 3 Parent, LLC	X	AS3356
6	PCCW Global, Inc.		AS3491
7	NTT America, Inc.	X	AS2914
8	GTT Communications Inc.	X	AS3257
9	TELECOM ITALIA SPARKLE S.p.A.	X	AS6762
10	Angola Cables	X	AS37468
11	GSL Networks Pty LTD	X	AS137405
12	ALGAR TELECOM S/A	X	AS16735
13	Seabras 1 USA, LLC	X	AS13786
14	COLNETWORK C.A.	X	AS271907
15	TECNOVEN SERVICES CA		AS269730
16	GlobeNet Cabos Submarinos Colombia, S.A.S.	X	AS52320
17	EDGEUNO S.A.S		AS7195
18	GIGAPOP, C.A.	X	AS271895
19	TotalCom Venezuela C.A.	X	AS264776
20	SAMM TECNOLOGIA E TELECOMUNICACOES S.A	X	AS262585
21	PowerHost Telecom SPA		AS263237
22	Vocus Connect International Backbone	X	AS4826
23	Administracion Nacional de Telecomunicaciones	X	AS6057
24	ALOO TELECOM - FSF TECNOLOGIA SA		AS61568
25	BHARTI Airtel Ltd.		AS9498
26	Florida International University	X	AS20080
27	SG.GS	X	AS24482
28	MAXI CABLE C.A		AS272857



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Company Website:
Company Looking Glass:

<http://www.lumen.com>
<https://lookingglass.centurylink.com>

Country of Origin:

United States

Internet Exchanges: 8

Prefixes Originated (all): 1,267
Prefixes Originated (v4): 1,180
Prefixes Originated (v6): 87

Prefixes Announced (all): 274,622
Prefixes Announced (v4): 241,922
Prefixes Announced (v6): 32,700

RPKI Originated Valid (all): 113
RPKI Originated Valid (v4): 107
RPKI Originated Valid (v6): 6

RPKI Originated Invalid (all): 13
RPKI Originated Invalid (v4): 11
RPKI Originated Invalid (v6): 2

BGP Peers Observed (all): 6,748
BGP Peers Observed (v4): 6,661
BGP Peers Observed (v6): 2,393

IPs Originated (v4): 29,844,736
AS Paths Observed (v4): 200,508
AS Paths Observed (v6): 76,878

Average AS Path Length (all): 4.012
Average AS Path Length (v4): 4.011
Average AS Path Length (v6): 4.016

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6	GTT Communications Inc.	X	AS3257
7	Level 3 Parent, LLC	X	AS3356
8	TELECOM ITALIA SPARKLE S.p.A.	X	AS6762
9	IP-Max SA	X	AS25091
10	COLNETWORK C.A.	X	AS271907
11	GSL Networks Pty LTD	X	AS137409
12	GlobeNet Cabos Submarinos Colombia, S.A.S.	X	AS52320
13	Angola Cables	X	AS37468
14	Vocus Connect International Backbone	X	AS4826
15	TotalCom Venezuela C.A.	X	AS264778
16	Fiber Telecom S.p.A.		AS41327
17	Administracion Nacional de Telecomunicaciones	X	AS6057
18	SAMM TECNOLOGIA E TELECOMUNICACOES S.A	X	AS262589
19	Seabras 1 USA, LLC	X	AS13786
20	Rede Nacional de Ensino e Pesquisa	X	AS1916
21	Rackdog, LLC	X	AS398465
22	TDS TELECOM		AS4181
23	GRUPO YAX	X	AS264409
24	Tiggee LLC	X	AS16552
25	INTERKVM HOST SRL	X	AS6204
26	Unitas Global	X	AS1828
27	MARACAIBO NET C.A	X	AS269829
28	Florida International University	X	AS20080



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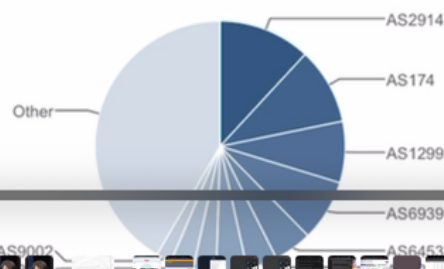
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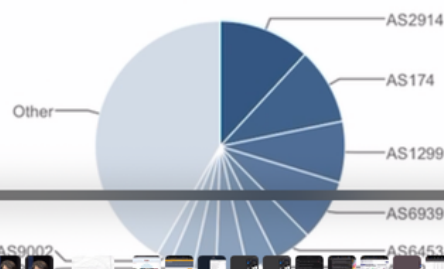
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- IRR
- IX
- Traceroute

Prefix	Description	Visibility
4.0.0.0/9		100% 643/645
4.1.34.92/30		0% 1/645
4.1.34.184/29		0% 1/645
4.1.37.200/29		0% 1/645
4.1.57.56/29		0% 2/645
4.1.77.128/29		0% 1/645
4.1.83.0/24		0% 2/645
4.1.170.56/29		0% 1/645
4.1.250.0/29		0% 1/645
4.1.250.8/29		0% 1/645
4.1.250.32/29		0% 1/645
4.1.250.168/29		0% 1/645
4.1.250.240/30		0% 1/645
4.1.251.60/30		0% 1/645
4.1.251.80/29		0% 1/645
4.2.140.100/30		0% 1/645
4.2.140.160/29		0% 1/645
4.2.140.176/29		0% 1/645
4.2.140.192/29		0% 1/645
4.2.140.200/29		0% 1/645
4.2.141.40/29		0% 1/645
4.2.141.48/29		0% 1/645
4.2.141.72/29		0% 1/645
4.2.141.136/29		0% 1/645
4.2.141.148/30		0% 1/645
4.2.142.8/29		0% 1/645
4.2.142.16/29		0% 1/645
4.2.142.104/29		0% 1/645



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- IPv6 Certification
- IPv6 Progress
- Doing Native
- Credits
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Prefix	Description	Visibility
4.0.0.0/9	Level 3 Parent, LLC	100% 643/645
4.1.34.92/30		0% 1/645
4.1.34.184/29		0% 1/645
4.1.37.200/29		0% 1/645
4.1.57.56/29		0% 2/645
4.1.77.128/29		0% 1/645
4.1.83.0/24	Level 3 Parent, LLC	0% 2/645
4.1.170.56/29		0% 1/645
4.1.250.0/29		0% 1/645
4.1.250.8/29		0% 1/645
4.1.250.32/29		0% 1/645
4.1.250.168/29		0% 1/645
4.1.250.240/30		0% 1/645
4.1.251.60/30		0% 1/645
4.1.251.80/29		0% 1/645
4.2.140.100/30		0% 1/645
4.2.140.160/29		0% 1/645
4.2.140.176/29		0% 1/645
4.2.140.192/29		0% 1/645
4.2.140.200/29		0% 1/645
4.2.141.40/29		0% 1/645
4.2.141.48/29		0% 1/645
4.2.141.72/29		0% 1/645
4.2.141.136/29		0% 1/645
4.2.141.148/30		0% 1/645
4.2.142.8/29		0% 1/645
4.2.142.16/29		0% 1/645
4.2.142.104/29		0% 1/645

149.37.1.0/24

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Announced By		
Origin AS	Announcement	Description
AS3356	149.37.1.0/24	Knolls Atomic Power Lab

November 5, 2024
10:08 PM

Private Customer (LDI) Provider

113.203.243.0/24			
113.29.101.64/27			
113.29.102.128/27			0% 2/645
113.29.103.0/26			0% 2/645
113.29.108.160/27			0% 2/645
113.29.25.112/29			0% 2/645
113.29.25.168/29			0% 2/645
113.29.28.0/24	Optus Ultimo Data Center		100% 644/645
113.29.46.192/27			0% 2/645
113.29.48.160/27			0% 2/645
113.29.72.64/26			0% 2/645
113.29.78.0/24	19 TAI SENG DRIVE		100% 644/645
113.29.85.128/26			0% 2/645
113.29.91.0/24	HK		100% 644/645
113.29.94.240/29			0% 2/645
113.29.94.32/27			0% 2/645
113.29.95.192/27			0% 2/645
128.191.240.0/20	☒ NEC Corporation of America		100% 644/645
130.185.126.0/24	☒ Private Customer		100% 645/645
131.119.0.0/16	Level 3 Parent, LLC		100% 645/645
131.119.18.88/29			0% 2/645
131.119.9.88/29			0% 2/645
132.174.174.0/24	Level 3 Parent, LLC (LPL-141) (C06985092)		100% 645/645
132.174.175.0/24	Level 3 Parent, LLC (LPL-141) (C06964640)		100% 644/645
132.174.179.0/24	Level 3 Parent, LLC (LPL-141) (C06964649)		100% 644/645
136.228.185.0/24	Cultural Experiences Abroad, Inc.		100% 644/645
137.106.0.0/16	CenturyLink Communications, LLC		4% 29/645
137.236.42.0/24	Open Text Corporation		100% 644/645
137.236.48.0/24	☒ Open Text Corporation		100% 644/645
138.108.170.0/24	☒ Nielsen Consumer LLC		100% 644/645
138.207.0.0/24	MagneTek, Inc.		100% 644/645
138.207.1.0/24	MagneTek, Inc.		100% 644/645
138.43.48.0/21	☒ Various Registries (Maintained by ARIN)		100% 644/645
138.94.0.0/22	CABLEMAG TELECOMUNICACIONES LTDA		100% 644/645
139.64.248.0/24	☒ Kimball Midwest		100% 644/645
139.69.0.0/16	Harnischfeger Corporation		100% 644/645
140.99.103.0/24	☒ Private Customer (C10039353)		100% 644/645

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November 5, 2024 10:08 PM			
149.117.25.0/24			100% 644/645
149.117.52.0/24		Synopsys Inc.	100% 644/645
149.37.1.0/24		Knolls Atomic Power Lab	100% 644/645
149.37.200.0/24		Knolls Atomic Power Lab	100% 644/645
154.16.160.0/24	✓	Digital Energy Technologies Limited	100% 645/645
154.16.186.0/24	✓	Digital Energy Technologies Limited	100% 643/645
154.16.203.0/24	✓	Digital Energy Technologies Limited	100% 645/645
156.139.0.0/16		HEWLETT PACKARD ENTERPRISE COMPANY	100% 644/645
159.127.32.0/24		Epsilon Data Management LLC	100% 644/645
159.246.50.0/24		Crowe LLP	100% 644/645
159.246.51.0/24		Crowe LLP	100% 644/645
159.63.163.0/24		Level 3 Parent, LLC	100% 644/645
159.63.179.0/24			100% 644/645
159.63.180.0/24			100% 644/645
159.63.60.19/32			0% 1/645
161.12.16.0/22		Neos Networks Limited	100% 645/645
161.199.156.0/24		Microbilt Corporation	100% 644/645
161.199.26.0/24	✓	Heat Transfer Research, Inc.	80% 515/645
162.97.152.0/21		Level 3 Parent, LLC	100% 644/645
162.97.220.0/23		Level 3 Parent, LLC	100% 644/645
163.123.197.0/24	✓	D and B Broadband, LLC	74% 480/645
163.5.155.0/24	✓		100% 645/645
164.38.150.0/24	✓	Currys Retail Ltd.	40% 261/645
165.236.144.0/20		Level 3 Parent, LLC	100% 645/645
165.236.176.0/21		Level 3 Parent, LLC	100% 645/645
165.236.64.0/19		Level 3 Parent, LLC	100% 645/645
165.236.96.0/21		Level 3 Parent, LLC	100% 645/645
166.90.0.0/16		Level 3 Parent, LLC	100% 645/645
167.136.238.0/24		Cargill, Inc.	100% 644/645
167.242.233.0/24		Blue Cross Blue Shield of Michigan	97% 627/645
167.246.59.0/24		Lion Resources, Inc.	100% 644/645
167.75.0.0/18		City of Tallahassee	100% 644/645
167.8.5.0/24		TEGNA Inc.	100% 644/645
168.195.200.96/27			0% 2/645
168.195.201.96/27			0% 2/645
168.205.4.0/22	✓	SPECTRUM BRIDGE MEXICO	100% 644/645
168.205.6.0/24	✓	SPECTRUM BRIDGE MEXICO	100% 644/645
168.215.102.128/27			0% 2/645
168.215.112.192/27			0% 2/645



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Prefix↓		Description	Visibility
100.43.14.0/24	✓	Lock Haven University (C07823514)	100% 644/645
103.228.98.0/24	✓	Transferred to the ARIN region on 2020-08-19T11:03:09Z.	100% 645/645
109.205.152.0/22	✓	AVBLOCK1	100% 645/645
109.205.156.0/24	✓	AVBLOCK2	100% 645/645
109.236.193.0/24	✓	IRESS SASAU	100% 645/645
109.236.194.0/24	✓	IRESS SASAU	100% 644/645
113.203.211.0/24	✓	telecomsukkah	17% 111/645
113.203.212.0/24	✓	Telecom Services (LDI) Provider	21% 136/645
113.203.214.0/24	✓	Telecom Services (LDI) Provider	17% 111/645
113.203.215.0/24	✓	Telecom Services (LDI) Provider	32% 205/645
113.203.219.0/24	✓	Telecom Services (LDI) Provider	32% 206/645
113.203.222.0/24	✓	Telecom Services (LDI) Provider	32% 209/645
113.203.227.0/24	✓	Telecom Services (LDI/WLL) Provider	8% 54/645
113.203.243.0/24	✓	Telecom Services (LDI) Provider	8% 53/645
113.29.101.64/27			0% 2/645
113.29.102.128/27			0% 2/645
113.29.103.0/26			0% 2/645
113.29.108.160/27			0% 2/645
113.29.25.112/29			0% 2/645
113.29.25.168/29			0% 2/645
113.29.28.0/24		Optus Ultimo Data Center	100% 644/645
113.29.46.192/27			0% 2/645
113.29.48.160/27			0% 2/645
113.29.72.64/26			0% 2/645
113.29.78.0/24		19 TAI SENG DRIVE	100% 644/645
113.29.85.128/26			0% 2/645
113.29.91.0/24			100% 644/645
113.29.94.240/29			0% 2/645

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TELECOMUNICACIONES

DA

100% 644/645

138.94.0.0/22				
139.64.248.0/24	✓	Kimball Midwest		100% 644/645
139.69.0.0/16		Harnischfeger Corporation		100% 644/645
140.99.103.0/24	✓	Private Customer (C10039353)		100% 644/645
140.99.241.0/24	✓	Private Customer (C10039354)		100% 644/645
140.99.248.0/24	✓	Private Customer (C10039355)		100% 644/645
140.99.60.0/24	✓	Private Customer (C10039351)		100% 645/645
140.99.69.0/24	✓	Private Customer (C10039352)		100% 645/645
141.98.91.0/24	✓	Private Customer		100% 645/645
142.202.22.0/24	✓	Guaranteed Rate Inc		100% 644/645
144.172.12.0/22		Qorvo US, Inc		100% 644/645
145.233.30.191/32				0% 1/645
145.233.4.1/32				0% 1/645
146.174.244.0/23		Quantum Corporation		100% 644/645
146.82.21.0/24		Level 3 Parent, LLC		100% 645/645
146.82.21.128/25				0% 2/645
146.82.21.32/27				0% 2/645
146.82.21.64/26				0% 2/645
146.82.68.0/24		Level 3 Parent, LLC		100% 645/645
148.165.0.0/18		Bay Area Rapid Transit District (BART)		100% 644/645
148.165.128.0/17		Bay Area Rapid Transit District (BART)		100% 644/645
149.117.129.0/24		Synopsys Inc.		100% 645/645
149.117.146.0/24		Synopsys Inc.		100% 645/645
149.117.15.0/24		Synopsys Inc.		100% 644/645
149.117.159.0/24		Synopsys Inc.		100% 645/645
149.117.18.0/24		Synopsys Inc.		100% 644/645
149.117.19.0/24		Synopsys Inc.		100% 644/645
149.117.24.0/24		Synopsys Inc.		100% 644/645
149.117.25.0/24		Synopsys Inc.		100% 644/645
149.117.52.0/24		Synopsys Inc.		100% 644/645
149.37.1.0/24		Knolls Atomic Power Lab		100% 644/645
149.37.200.0/24		Knolls Atomic Power Lab		100% 644/645
154.16.160.0/24	✓	Digital Energy Technologies Limited		100% 645/645
154.16.186.0/24	✓	Digital Energy Technologies Limited		100% 643/645
154.16.203.0/24	✓	Digital Energy Technologies Limited		100% 645/645
156.139.0.0/16		HEWLETT PACKARD ENTERPRISE COMPANY		100% 644/645
159.127.32.0/24		Epsilon Data Management LLC		100% 644/645
159.246.50.0/24		Crowe LLP		100% 644/645

||



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NetRange: 149.0.0.0 - 149.255.255.255
CIDR: 149.0.0.0/8
NetName: NET149
NetHandle: NET-149-0-0-0
Parent: ()
NetType: Early Registrations, Maintained by ARIN
OriginAS:
Organization: Various Registries (Maintained by ARIN) (VR-ARIN)
RegDate: 1993-05-01
Updated: 2013-12-30
Ref: <https://rdap.arin.net/registry/ip/149.0.0.0>

OrgName: Various Registries (Maintained by ARIN)
OrgId: VR-ARIN
Address: PO Box 232290
City: Centreville
StateProv: VA
PostalCode: 20120
Country: US
RegDate: 1993-05-01
Updated: 2018-01-08
Comment: Address space was assigned by the InterNIC regardless of
Comment: geographic region. The registrations are now being maintained
Comment: by various registries, and the in-addr.arpa delegations are
Comment: being maintained by ARIN.
Ref: <https://rdap.arin.net/registry/entity/VR-ARIN>

OrgAbuseHandle: CKN23-ARIN
OrgAbuseName: No, Contact Known
OrgAbusePhone: +1-800-555-1234
OrgAbuseEmail: nobody@example.com
OrgAbuseRef: <https://rdap.arin.net/registry/entity/CKN23-ARIN>

OrgTechHandle: CKN23-ARIN
OrgTechName: No, Contact Known
OrgTechPhone: +1-800-555-1234
OrgTechEmail: nobody@example.com
OrgTechRef: <https://rdap.arin.net/registry/entity/CKN23-ARIN>

NetRange: 149.37.0.0 - 149.37.255.255
CIDR: 149.37.0.0/16
NetName: KAPL
NetHandle: NET-149-37-0-0-1
Parent: NET149 (NET-149-0-0-0-0)
NetType: Direct Allocation
OriginAS:
Organization: Knolls Atomic Power Lab (KAPL-1)
RegDate: 1995-01-26
Updated: 2021-12-14
Ref: <https://rdap.arin.net/registry/ip/149.37.0.0>

OrgName: Knolls Atomic Power Lab
Address: PO Box 1072



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- IPv6 Certification
- IPv6 Progress
- Doing Native
- Credits
- Contact Us

Organization: Various Registries (Maintained by ARIN) (VR-ARIN)
 RegDate: 1993-05-01
 Updated: 2018-01-08 10:08 PM
 Ref: <https://rdap.arin.net/registry/ip/149.0.0.0>

OrgName: Various Registries (Maintained by ARIN)
 OrgId: VR-ARIN
 Address: PO Box 232290
 City: Centreville
 StateProv: VA
 PostalCode: 20120
 Country: US
 RegDate: 1993-05-01
 Updated: 2018-01-08
 Comment: Address space was assigned by the InterNIC regardless of geographic region. The registrations are now being maintained by various registries, and the in-addr.arpa delegations are being maintained by ARIN.
 Comment: by various registries, and the in-addr.arpa delegations are being maintained by ARIN.
 Ref: <https://rdap.arin.net/registry/entity/VR-ARIN>

OrgAbuseHandle: CKN23-ARIN
 OrgAbuseName: No, Contact Known
 OrgAbusePhone: +1-800-555-1234
 OrgAbuseEmail: nobody@example.com
 OrgAbuseRef: <https://rdap.arin.net/registry/entity/CKN23-ARIN>

OrgTechHandle: CKN23-ARIN
 OrgTechName: No, Contact Known
 OrgTechPhone: +1-800-555-1234
 OrgTechEmail: nobody@example.com
 OrgTechRef: <https://rdap.arin.net/registry/entity/CKN23-ARIN>

NetRange: 149.37.0.0 - 149.37.255.255
 CIDR: 149.37.0.0/16
 NetName: KAPL
 NetHandle: NET-149-37-0-0-1
 Parent: NET149 (NET-149-0-0-0-0)
 NetType: Direct Allocation
 OriginAS:
 Organization: Knolls Atomic Power Lab (KAPL-1)
 RegDate: 1995-01-26
 Updated: 2021-12-14
 Ref: <https://rdap.arin.net/registry/ip/149.37.0.0>

OrgName: Knolls Atomic Power Lab
 OrgId: KAPL-1
 Address: PO Box 1072
 City: Schenectady
 StateProv: NY
 PostalCode: 12301-1072
 Country: US
 RegDate: 1995-01-26
 Updated: 2011-09-24
 Ref: <https://rdap.arin.net/registry/entity/KAPL-1>

OrgAbuseHandle: AFR7-ARIN
 OrgAbuseName: Frederick, Alpha
 OrgAbusePhone: +1-518-395-7245
 OrgAbuseEmail: alpha@kapl.gov
 OrgAbuseRef: <https://rdap.arin.net/registry/entity/AFR7-ARIN>

OrgTechHandle: AFR7-ARIN
 OrgTechName: Frederick, Alpha
 OrgTechPhone: +1-518-395-7245
 OrgTechEmail: alpha@kapl.gov
 OrgTechRef: <https://rdap.arin.net/registry/entity/AFR7-ARIN>

RTechHandle: TR92-ARIN
 RTechName: Reed, Tom
 RTechPhone: +1-518-395-6253
 RTechEmail: postmaster@kapl.gov
 RTechRef: <https://rdap.arin.net/registry/entity/TR92-ARIN>



Entity KAPL-1

Handle: KAPL-1

Roles:

- registrant

Events:

last changed: 9/24/2011, 7:30:57 AM

registration: 1/25/1995, 11:00:00 PM

Contact:

Name: Knolls Atomic Power Lab

Address:

PO Box 1072
Schenectady
NY
12301-1072
United States

kind: org

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/KAPL-1> (self)
- <https://whois.arin.net/rest/org/KAPL-1> (alternate)

Entities:

Entity AFR7-ARIN

Hide

Handle: AFR7-ARIN

Roles:

- technical
- administrative
- abuse

Events:

last changed: 9/15/2003, 4:07:31 PM

registration: 9/15/2003, 4:07:31 PM

Contact:

Address:

PO Box 1072
Schenectady
NY
12301-1072
United States

Name: Alpha Frederick

kind: individual

Email: alpha@kapl.gov



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whois.arin.net

NetRange: 149.0.0.0 - 149.255.255.255
CIDR: 149.0.0.0/8
NetName: NET149
NetHandle: NET-149-0-0-0
Parent: ()
NetType: Early Registrations, Maintained by ARIN
OriginAS: Various Registries (Maintained by ARIN) (VR-ARIN)
RegDate: 1993-05-01
Updated: 2013-12-30
Ref: https://rdap.arin.net/registry/ip/149.0.0.0

OrgName: Various Registries (Maintained by ARIN)
OrgId: VR-ARIN
Address: PO Box 232290
City: Centreville
StateProv: VA
PostalCode: 20120
Country: US
RegDate: 1993-05-01
Updated: 2018-01-08
Comment: Address space was assigned by the InterNIC regardless of geographic region. The registrations are now being maintained by various registries, and the in-addr.arpa delegations are being maintained by ARIN.
Ref: https://rdap.arin.net/registry/entity/VR-ARIN

OrgAbuseHandle: CKN23-ARIN
OrgAbuseName: No, Contact Known
OrgAbusePhone: +1-800-555-1234
OrgAbuseEmail: nobody@example.com
OrgAbuseRef: https://rdap.arin.net/registry/entity/CKN23-ARIN

OrgTechHandle: CKN23-ARIN
OrgTechName: No, Contact Known
OrgTechPhone: +1-800-555-1234
OrgTechEmail: nobody@example.com
OrgTechRef: https://rdap.arin.net/registry/entity/CKN23-ARIN

NetRange: 149.37.0.0 - 149.37.255.255
CIDR: 149.37.0.0/16
NetName: KAPL
NetHandle: NET-149-37-0-0-1
Parent: NET149 (NET-149-0-0-0-0)
NetType: Direct Allocation
OriginAS: Knolls Atomic Power Lab (KAPL-1)
RegDate: 1995-01-26
Updated: 2021-12-14
Ref: https://rdap.arin.net/registry/ip/149.37.0.0

OrgName: Knolls Atomic Power Lab
Address: PO Box 1072



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NET-149-37-0-0-1

{JSON} Hide

IP Version: v4

Address Range: 149.37.0.0 - 149.37.255.255

Parent Network: NET-149-0-0-0-0

CIDR(s):

- 149.37.0.0/16

Network Name: KAPL

Allocation Type: DIRECT ALLOCATION

Status:

- active

Events:

last changed: 12/14/2021, 7:28:31 PM

registration: 1/25/1995, 11:00:00 PM

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/ip/149.37.0.0> (self)
- <https://whois.arin.net/rest/net/NET-149-37-0-0-1> (alternate)

Entities:

Entity KAPL-1

Hide

Handle: KAPL-1

Roles:

- registrant

Events:

last changed: 9/24/2011, 7:30:57 AM

registration: 1/25/1995, 11:00:00 PM

Roles:

- technical
- administrative
- abuse

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Events:

last changed: 9/15/2003, 4:07:31 PM

registration: 9/15/2003, 4:07:31 PM

Contact:

Address:

PO Box 1072
Schenectady
NY
12301-1072
United States

Name: Alpha Frederick

kind: individual

Email: alpha@kapl.gov

Tel: [+1-518-395-7245](tel:+15183957245) (work,voice)

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/AFR7-ARIN> (self)
- <https://whois.arin.net/rest/poc/AFR7-ARIN> (alternate)

Remarks:

Unvalidated POC

ARIN has attempted to validate the data for this POC, but has received no response from the POC since 2010-07-11

Raw: [Show](#)

Raw: [Show](#)

Entity TR92-ARIN

[Hide](#)

Handle: TR92-ARIN

Roles:

- technical

Events:

last changed: 1/26/1995, 10:30:50 AM

registration: 1/26/1995, 10:30:50 AM

Contact:

Address:

Knolls Atomic Power Lab

Raw: [Show](#)

Entity TR92-ARIN

[Hide](#)

Handle: TR92-ARIN

Roles:

- technical

Events:

last changed: 1/26/1995, 10:30:50 AM

registration: 1/26/1995, 10:30:50 AM

Contact:

Address:

Knolls Atomic Power Lab
PO Box 1072
Schenectady
NY
12301-1072
United States

Name: Tom Reed

kind: individual

Email: postmaster@kapl.gov

Tel: +1-518-395-6253 (work,voice)

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/TR92-ARIN> (self)
- <https://whois.arin.net/rest/poc/TR92-ARIN> (alternate)

Remarks:

Unvalidated POC

ARIN has attempted to validate the data for this POC, but has received no response from the POC since 2010-07-24

Raw: [Show](#)

Notices:

Whois Inaccuracy Reporting

If you see inaccuracies in the results, please visit:

Links:

- [https://www.arin.net/resources/registry/whois/inaccuracy_reporting/\(inaccuracy-report\)](https://www.arin.net/resources/registry/whois/inaccuracy_reporting/(inaccuracy-report))



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- ogon Routes
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- NS Report
- op Host Report
- ternet Statistics
- oking Glass
- etwork Tools App
- 'ee IPv6 Tunnel
- 'v6 Certification
- 'v6 Progress
- oing Native
- redits
- ontact Us

Contact:

Address:

Knolls Atomic Power Lab
PO Box 1072
Schenectady
NY
12301-1072
United States

Name: Tom Reed

kind: individual

Email: postmaster@kapl.gov

Tel: [+1-518-395-6253](tel:+1-518-395-6253) (work,voice)

Whois Server: whois.arin.net

Links:

- <https://rdap.arin.net/registry/entity/TR92-ARIN> (self)
- <https://whois.arin.net/rest/poc/TR92-ARIN> (alternate)

Remarks:

Unvalidated POC

ARIN has attempted to validate the data for this POC, but has received no response from the POC since 2010-07-24

Raw: [Show](#)

Notices:

Whois Inaccuracy Reporting

If you see inaccuracies in the results, please visit:

Links:

- [https://www.arin.net/resources/registry/whois/inaccuracy_reporting/\(inaccuracy-report\)](https://www.arin.net/resources/registry/whois/inaccuracy_reporting/(inaccuracy-report))

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Conformance:

- nro_rdap_profile_0
- rdap_level_0
- cidr0
- arin_originas0

Raw: [Show](#)



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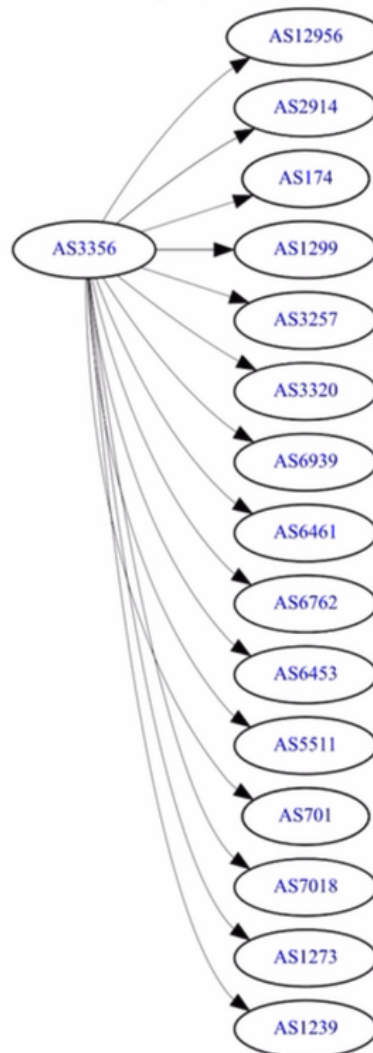
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- ogon Routes
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REALTIME

Origin AS3356



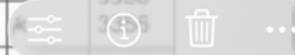
November 5, 2024
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rrc25.ripe.net		134823	x	3356
rrc25.ripe.net		61138		
rrc25.ripe.net	46.8.37.63	198150	x	3356
rrc25.ripe.net	193.148.249.191	212123	x	3356
rrc25.ripe.net	217.76.0.17	43733	x	3356
rrc25.ripe.net	178.248.51.149	51185	x	3356
rrc25.ripe.net	152.89.170.250	212271	x	3356
rrc25.ripe.net	195.69.189.4	28910	x	3356
rrc25.ripe.net	130.244.51.154	1257	x	3356
route-views4	45.112.244.1	63956	x	3356
route-views4	192.43.217.142	14041	x	3356
route-views4	193.28.236.32	30950	x	3356
route-views4	103.96.117.253	133950	x	3356
route-views4	114.141.109.44	45437	x	3356
route-views4	129.250.1.248	2914	x	3356
route-views4	103.52.116.4	63956	x	3356
route-views4	103.247.3.143	58511	x	3356
route-views4	212.81.56.227	57050	x	3356
route-views4	133.205.1.142	2518	x	3356
route-views4	203.175.175.15	24482	x	3356
route-views4	31.204.91.150	56665	x	3356
route-views4	109.233.180.32	34288	x	3356
route-views4	119.18.185.44	38726	x	3356
route-views4	103.247.3.36	58511	x	3356
route-views4	154.72.103.192	32653	x	3356
route-views4	104.225.4.202	36236	x	3356
route-views4	132.198.255.254	1351	x	3356
route-views4	198.98.84.183	19754	x	3356
rrc11.ripe.net	198.32.160.103	13030	x	3356
rrc11.ripe.net	198.32.160.42	2497	x	3356
rrc11.ripe.net	198.32.160.12	199524	x	3356
rrc11.ripe.net	198.32.160.58	21700	x	3356
rrc11.ripe.net	198.32.160.137	19151	x	3356
rrc11.ripe.net	198.32.160.242	24482	x	3356
rrc11.ripe.net	198.32.160.39	9304	x	3356
rrc11.ripe.net	198.32.160.182	9002	x	3356
rrc13.ripe.net	195.208.210.52	41722	x	3356
rrc13.ripe.net	195.208.209.66	35598	x	3356
rrc13.ripe.net	195.208.209.109	24482	x	3356
rrc13.ripe.net	195.208.208.223	20764	x	3356





rrc19.ripe.net		3491		
rrc19.ripe.net	196.60.9.165	917	x	3356
rrc19.ripe.net	196.60.8.178	37271	x	3356
rrc25.ripe.net	27.50.36.146	134823	x	3356
rrc25.ripe.net	31.15.255.209	3212	x	3356
rrc25.ripe.net	193.28.236.32	30950	x	3356
rrc25.ripe.net	176.119.210.1	56457	x	3356
rrc25.ripe.net	62.115.129.90	1299	x	3356
rrc25.ripe.net	185.121.168.42	924	x	3356
rrc25.ripe.net	23.159.16.22	835	x	3356
rrc25.ripe.net	91.132.202.2	35710	x	3356
rrc25.ripe.net	79.143.96.61	15397	x	3356
rrc25.ripe.net	194.28.99.120	34872	x	3356
rrc25.ripe.net	23.175.208.254	54316	x	3356
rrc25.ripe.net	103.87.125.0	45489	x	3356
rrc25.ripe.net	80.241.0.70	21282	x	3356
rrc25.ripe.net	185.205.208.5	44901	x	3356
rrc25.ripe.net	66.255.243.37	13781	x	3356
rrc25.ripe.net	203.240.229.2	138195	x	3356
rrc25.ripe.net	185.115.244.25	28824	x	3356
rrc25.ripe.net	109.200.212.1	49544	x	3356
rrc25.ripe.net	93.190.135.253	6881	x	3356
rrc25.ripe.net	146.19.145.216	8888	x	3356
rrc25.ripe.net	46.245.142.4	197580	x	3356
rrc25.ripe.net	45.67.83.250	207910	x	3356
rrc25.ripe.net	103.74.171.30	132847	x	3356
rrc25.ripe.net	104.225.4.202	36236	x	3356
rrc25.ripe.net	193.43.214.253	44097	x	3356
rrc25.ripe.net	103.152.35.254	38008	x	3356
rrc25.ripe.net	103.167.66.1	142271	x	3356
rrc25.ripe.net	130.117.255.1	174	x	3356
rrc25.ripe.net	77.243.32.58	31027	x	3356
rrc25.ripe.net	94.207.42.2	57187	x	3356
rrc25.ripe.net	77.243.32.3	31027	x	3356
rrc25.ripe.net	192.154.3.129	394414	x	3356
rrc25.ripe.net	45.136.222.0	208431	x	3356
rrc25.ripe.net	186.211.216.32	14840	x	3356
rrc25.ripe.net	185.255.53.202	3214	x	3356
rrc25.ripe.net	103.176.189.0	149794	x	3356





Search

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Quick Links

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ooking Glass
etwork Tools App
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Propagation

Visibility

Routes

Traceroute

Visibility 100% (644 out of 645) Full Views

Collector	Peer IP	Peer ASN	Has Prefix	Origin ASN
rrc15.ripe.net	187.16.220.216	52873	x	3356
rrc15.ripe.net	187.16.222.107	263152	x	3356
rrc15.ripe.net	187.16.222.45	263237	x	3356
rrc15.ripe.net	187.16.208.144	24482	x	3356
rrc15.ripe.net	187.16.217.59	23106	x	3356
rrc15.ripe.net	187.16.217.110	23106	x	3356
rrc15.ripe.net	187.16.213.225	6424	x	3356
rrc15.ripe.net	187.16.216.209	28634	x	3356
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rrc15.ripe.net	187.16.220.159	917	x	3356
rrc15.ripe.net	187.16.209.34	271253	x	3356
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rrc15.ripe.net	187.16.222.156	264479	x	3356
rrc15.ripe.net	187.16.209.243	271253	x	3356
rrc15.ripe.net	187.16.217.161	13786	x	3356
rrc15.ripe.net	187.16.217.17	22548	x	3356
rrc15.ripe.net	187.16.216.121	42473	x	3356
rrc16.ripe.net	198.32.243.133	199524	x	3356
rrc16.ripe.net	198.32.242.55	20080	x	3356
rrc16.ripe.net	198.32.242.254	52320	x	3356
rrc19.ripe.net	196.60.9.188	199524	x	3356
rrc19.ripe.net	196.60.8.190	37239	x	3356
rrc19.ripe.net	196.60.8.221	327804	x	3356
rrc19.ripe.net	196.60.8.22	327960	x	3356
rrc19.ripe.net	196.60.8.139	32653	x	3356
rrc19.ripe.net	196.60.8.44	327983	x	3356
rrc19.ripe.net	196.60.8.152	3491	x	3356

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rrc14.ripe.net	198.32.176.70	6762	x	3356
rrc14.ripe.net	198.32.176.24	2497	x	3356
rrc14.ripe.net	198.32.176.164	19151	x	3356
rrc14.ripe.net	198.32.176.14	2914	x	3356
rrc14.ripe.net	198.32.176.226	199524	x	3356
collector14.bgp.he.net	172.18.14.2	6939	x	3356
collector14.bgp.he.net	172.18.14.1	6939	x	3356
route-views.amsix	80.249.208.152	39591	x	3356
route-views.amsix	80.249.209.216	9002	x	3356
route-views.amsix	80.249.212.75	38880	x	3356
route-views.amsix	185.1.166.237	213151	x	3356
route-views.amsix	80.249.214.44	16552	x	3356
route-views.amsix	80.249.208.35	12859	x	3356
route-views.amsix	80.249.208.50	1103	x	3356
route-views.amsix	185.1.167.195	60150	x	3356
route-views.amsix	80.249.213.223	267613	x	3356
route-views.amsix	80.249.208.209	51088	x	3356
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route-views.amsix	185.1.167.149	200242	x	3356
route-views.amsix	80.249.208.106	6830	x	3356
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route-views.amsix	80.249.209.17	12779	x	3356
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route-views.flix	206.41.108.209	20253	x	3356
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route-views.flix	206.41.108.179	1031	x	3356
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route-views.linx	195.66.224.89	6830	x	3356
route-views.linx	195.66.227.118	8455	x	3356



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route-views	195.66.224.99	6830	x	3356
route-views.linx	195.66.224.118	8455	x	3356
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route-views.linx	195.66.225.196	41811	x	3356
route-views.linx	195.66.226.97	39122	x	3356
route-views.linx	195.66.224.21	6939	x	3356
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route-views.linx	195.66.224.114	6667	x	3356
route-views.linx	195.66.224.167	3491	x	3356
route-views.linx	195.66.226.33	59605	x	3356
route-views.linx	195.66.226.39	267613	x	3356
route-views.linx	195.66.224.165	38880	x	3356
route-views.linx	195.66.226.102	37271	x	3356
route-views.linx	195.66.227.122	398465		n/a
route-views.linx	195.66.236.175	13030	x	3356
route-views.linx	195.66.224.193	9002	x	3356
route-views.linx	195.66.224.51	6453	x	3356
route-views.linx	195.66.225.146	49544	x	3356
route-views.linx	195.66.238.214	58511	x	3356
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route-views.linx	195.66.225.212	6424	x	3356
route-views.linx	195.66.226.214	58511	x	3356
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route-views.eqix	206.126.236.214	57695	x	3356
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route-views.eqix	206.126.237.210	49544	x	3356



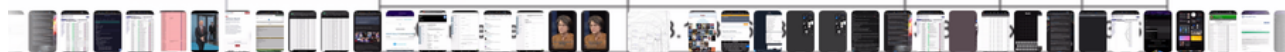


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route-views.eqix	206.126.236.47	19151	x	3356
route-views.eqix	206.126.236.19	3257	x	3356
route-views.eqix	206.126.236.12	2914	x	3356
route-views.eqix	206.126.236.94	3320	x	3356
route-views.eqix	206.126.238.209	17350	x	3356
route-views.eqix	206.126.236.37	6939	x	3356
route-views.eqix	206.126.238.208	17350	x	3356
route-views.eqix	206.126.238.215	20253	x	3356
route-views.eqix	206.126.236.120	41095	x	3356
route-views.fortaleza	45.68.74.59	199524	x	3356
route-views.fortaleza	45.68.72.187	28624	x	3356
route-views.fortaleza	45.68.74.7	262462	x	3356
route-views.fortaleza	45.68.75.173	20253	x	3356
route-views.fortaleza	45.68.72.128	52320	x	3356
route-views.fortaleza	45.184.145.15	264479	x	3356
route-views.isc	198.32.176.20	6939	x	3356
route-views.isc	198.32.176.177	7575	x	3356
route-views.isc	198.32.176.164	19151	x	3356
route-views.isc	198.32.176.57	3320	x	3356
route-views.isc	198.32.176.95	49544	x	3356
route-views.isc	198.32.176.226	199524	x	3356
route-views.kixp	196.223.21.73	37271	x	3356
route-views.kixp	196.223.21.74	6939	x	3356
route-views.kixp	196.223.21.72	37271	x	3356
route-views.chicago	208.115.136.5	17350	x	3356
route-views.chicago	208.115.136.67	852	x	3356
route-views.chicago	208.115.136.220	53828	x	3356
route-views.chicago	208.115.137.216	20253	x	3356
route-views.chicago	208.115.137.50	49544	x	3356
route-views.chicago	208.115.136.42	199524	x	3356
route-views.chicago	208.115.136.95	17350	x	3356
route-views.chicago	208.115.136.133	19653	x	3356
route-views.chicago	208.115.136.18	19151	x	3356
route-views.chicago	208.115.136.58	293	x	3356
route-views.chicago	208.115.136.134	32709	x	3356
route-views.chicago	208.115.136.5	17350	x	3356



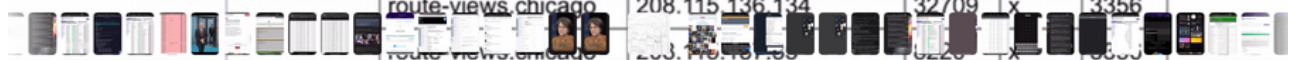


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route-views.isc	198.32.176.177	7575	x	3356
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route-views.isc	198.32.176.57	3320	x	3356
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route-views.kixp	196.223.21.72	37271	x	3356
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route-views.chicago	208.115.136.67	852	x	3356
route-views.chicago	208.115.136.220	53828	x	3356
route-views.chicago	208.115.137.216	20253	x	3356
route-views.chicago	208.115.137.50	49544	x	3356
route-views.chicago	208.115.136.42	199524	x	3356
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route-views.chicago	208.115.136.134	32709	x	3356
route-views.chicago	208.115.137.35	8220	x	3356
route-views.chicago	208.115.137.47	398465	x	3356
route-views.chicago	208.115.137.100	14630	x	3356
route-views.chicago	208.115.137.200	14630	x	3356
route-views.chicago	208.115.137.69	16552	x	3356
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rrc00.ripe.net	2.56.11.1	34854	x	3356
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rrc00.ripe.net	193.160.39.1	57821	x	3356
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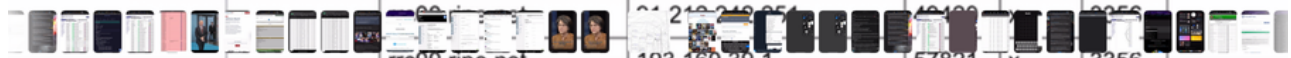


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route-views.eqix	206.126.238.64	8220	x	3356
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route-views.eqix	206.126.236.19	3257	x	3356
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route-views.eqix	206.126.238.209	17350	x	3356
route-views.eqix	206.126.236.37	6939	x	3356
route-views.eqix	206.126.238.208	17350	x	3356
route-views.eqix	206.126.238.215	20253	x	3356
route-views.eqix	206.126.236.120	41095	x	3356
route-views.fortaleza	45.68.74.59	199524	x	3356
route-views.fortaleza	45.68.72.187	28624	x	3356
route-views.fortaleza	45.68.74.7	262462	x	3356
route-views.fortaleza	45.68.75.173	20253	x	3356
route-views.fortaleza	45.68.72.128	52320	x	3356
route-views.fortaleza	45.184.145.15	264479	x	3356
route-views.isc	198.32.176.20	6939	x	3356
route-views.isc	198.32.176.177	7575	x	3356
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route-views.isc	198.32.176.57	3320	x	3356
route-views.isc	198.32.176.95	49544	x	3356
route-views.isc	198.32.176.226	199524	x	3356
route-views.kixp	196.223.21.73	37271	x	3356
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route-views.kixp	196.223.21.72	37271	x	3356
route-views.chicago	208.115.136.5	17350	x	3356
route-views.chicago	208.115.136.67	852	x	3356
route-views.chicago	208.115.136.220	53828	x	3356
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route-views.chicago	208.115.136.42	199524	x	3356
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route-views.chicago	208.115.136.134	32709	x	3356
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route-views	45.68.74.59	41095		
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route-views.chicago	208.115.137.47	398465	x	3356
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route-views.chicago	208.115.136.58	293	x	3356
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route-views.chicago	208.115.137.47	398465	x	3356
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route-views.chicago	208.115.137.69	16552	x	3356
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rrc00.ripe.net	2.56.11.1	34854	x	3356
rrc00.ripe.net	193.150.22.240	57381	x	3356
rrc00.ripe.net	45.14.68.69	206499	x	3356
rrc00.ripe.net	217.151.205.144	20514	x	3356
rrc00.ripe.net	49.12.70.222	44393	x	3356
rrc00.ripe.net	193.0.0.56	3333	x	3356
rrc00.ripe.net	91.212.242.251	49420	x	3356
rrc00.ripe.net	193.160.39.1	57821	x	3356
rrc00.ripe.net	94.247.111.254	49673	x	3356
rrc00.ripe.net	103.102.5.1	131477	x	3356
rrc00.ripe.net	193.148.251.1	34927	x	3356

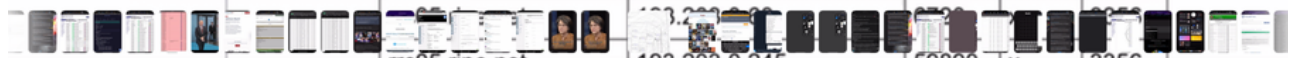


rrc00.ripe.net	November 5, 2024 5:44	20514		
rrc00.ripe.net	45.12.10.222	44393	x	3356
rrc00.ripe.net	193.0.0.56	3333	x	3356
rrc00.ripe.net	91.212.242.251	49420	x	3356
rrc00.ripe.net	193.160.39.1	57821	x	3356
rrc00.ripe.net	94.247.111.254	49673	x	3356
rrc00.ripe.net	103.102.5.1	131477	x	3356
rrc00.ripe.net	193.148.251.1	34927	x	3356
rrc00.ripe.net	193.163.86.231	34800	x	3356
rrc00.ripe.net	208.80.153.193	14907	x	3356
rrc00.ripe.net	202.150.221.37	38001	x	3356
rrc00.ripe.net	45.61.0.85	22652	x	3356
rrc00.ripe.net	208.51.134.248	3549	x	3356
rrc00.ripe.net	203.175.175.15	24482	x	3356
rrc00.ripe.net	185.193.84.191	29504	x	3356
rrc00.ripe.net	203.119.104.1	4608	x	3356
rrc00.ripe.net	194.50.92.251	58057	x	3356
rrc00.ripe.net	185.102.84.232	61218	x	3356
rrc00.ripe.net	89.234.186.6	204092	x	3356
rrc00.ripe.net	202.69.160.152	17639	x	3356
rrc00.ripe.net	64.246.96.5	20205	x	3356
rrc00.ripe.net	80.77.16.114	34549	x	3356
rrc00.ripe.net	194.50.19.4	202365	x	3356
rrc00.ripe.net	161.129.152.2	13830	x	3356
rrc00.ripe.net	5.255.90.109	202365	x	3356
rrc00.ripe.net	12.0.1.63	7018	x	3356
rrc00.ripe.net	154.11.12.212	852	x	3356
rrc00.ripe.net	94.177.122.251	58057	x	3356
rrc00.ripe.net	165.254.255.2	15562	x	3356
rrc00.ripe.net	5.178.95.254	59919	x	3356
rrc00.ripe.net	45.116.179.212	55720	x	3356
rrc00.ripe.net	198.58.198.252	1403	x	3356
rrc00.ripe.net	185.210.224.254	49432	x	3356
rrc00.ripe.net	194.28.97.2	45049	x	3356
rrc00.ripe.net	31.169.49.228	50304	x	3356
rrc00.ripe.net	2a09:4c0:100:5eb1::7afb	58057	x	3356
rrc00.ripe.net	45.134.89.1	34927	x	3356
rrc00.ripe.net	176.12.110.8	50300	x	3356
rrc03.ripe.net	80.249.210.153	24482	x	3356





rrc03.ripe.net	November 5, 2024 10:08 PM	1103		
rrc03.ripe.net	80.249.208.208	12956	x	3356
rrc03.ripe.net	193.239.118.106	42541	x	3356
rrc03.ripe.net	80.249.210.207	35598	x	3356
rrc03.ripe.net	80.249.210.78	59605	x	3356
rrc03.ripe.net	80.249.208.162	49544	x	3356
rrc03.ripe.net	80.249.209.167	6453	x	3356
rrc03.ripe.net	80.249.209.53	8218	x	3356
rrc03.ripe.net	80.249.208.106	6830	x	3356
rrc03.ripe.net	193.239.117.18	205206	x	3356
rrc03.ripe.net	80.249.212.10	50629	x	3356
rrc03.ripe.net	80.249.211.217	8455	x	3356
rrc03.ripe.net	80.249.208.200	12859	x	3356
rrc03.ripe.net	80.249.209.211	3320	x	3356
rrc03.ripe.net	80.249.210.85	25160	x	3356
rrc03.ripe.net	80.249.208.122	6461	x	3356
rrc03.ripe.net	80.249.210.163	51185	x	3356
rrc03.ripe.net	193.239.116.60	399580	x	3356
rrc03.ripe.net	193.239.117.30	41047	x	3356
rrc03.ripe.net	80.249.211.161	8283	x	3356
rrc03.ripe.net	80.249.208.209	51088	x	3356
rrc03.ripe.net	80.249.213.102	47147	x	3356
rrc03.ripe.net	80.249.209.176	14907	x	3356
rrc03.ripe.net	80.249.211.237	199938	x	3356
rrc03.ripe.net	80.249.213.131	39351	x	3356
rrc03.ripe.net	80.249.210.150	199524	x	3356
rrc03.ripe.net	80.249.210.134	34019	x	3356
rrc04.ripe.net	192.65.185.157	12350	x	3356
rrc04.ripe.net	192.65.185.195	15547	x	3356
rrc04.ripe.net	192.65.185.141	6730	x	3356
rrc04.ripe.net	192.65.185.3	513	x	3356
rrc04.ripe.net	192.65.185.142	20932	x	3356
rrc04.ripe.net	192.65.185.244	25091	x	3356
rrc04.ripe.net	192.65.185.140	29222	x	3356
rrc05.ripe.net	193.203.0.182	48362	x	3356
rrc05.ripe.net	193.203.0.19	47147	x	3356
rrc05.ripe.net	193.203.0.75	40994	x	3356
rrc05.ripe.net	193.203.0.145	31510	x	3356
rrc05.ripe.net	193.203.0.213	51184	x	3356





rrc05.ripe.net	193.203.0.245	51184	x	3356
rrc05.ripe.net	193.203.0.192	6720	x	3356
rrc05.ripe.net	193.203.0.245	59890	x	3356
rrc05.ripe.net	193.203.0.192	47692	x	3356
rrc05.ripe.net	193.203.0.45	8218	x	3356
rrc05.ripe.net	193.203.0.157	35369	x	3356
rrc05.ripe.net	193.203.0.91	13237	x	3356
rrc06.ripe.net	202.249.2.20	4777	x	3356
rrc06.ripe.net	202.249.2.169	2497	x	3356
rrc06.ripe.net	202.249.2.185	25152	x	3356
rrc06.ripe.net	210.171.225.165	59105	x	3356
rrc06.ripe.net	202.249.2.83	2500	x	3356
route-views.napafrika	196.60.8.139	32653	x	3356
route-views.napafrika	196.60.8.178	37271	x	3356
route-views.napafrika	196.60.8.6	49544	x	3356
route-views.napafrika	196.60.8.142	37271	x	3356
route-views.napafrika	196.60.8.60	37468	x	3356
route-views.napafrika	196.60.8.113	328512	x	3356
route-views.napafrika	196.60.8.152	3491	x	3356
route-views.napafrika	196.60.10.195	328964	x	3356
route-views.napafrika	196.60.9.188	199524	x	3356
route-views.napafrika	196.60.10.232	328964	x	3356
route-views.napafrika	196.60.9.139	32653	x	3356
route-views.napafrika	196.60.10.62	16552	x	3356
route-views2.saopaulo	187.16.219.29	16552	x	3356
route-views2.saopaulo	187.16.209.34	271253	x	3356
route-views2.saopaulo	187.16.216.232	28329	x	3356
route-views2.saopaulo	187.16.222.156	264479	x	3356
route-views2.saopaulo	187.16.222.168	262791	x	3356
route-views2.saopaulo	187.16.219.20	61832	x	3356
route-views2.saopaulo	187.16.220.229	49544	x	3356
route-views2.saopaulo	187.16.222.16	199524	x	3356
route-views2.saopaulo	187.16.222.221	263009	x	3356
route-views2.saopaulo	187.16.217.27	28329	x	3356





rrc03.ripe.net	80.249.212.10	205206		
rrc03.ripe.net	80.249.211.217	50629	x	3356
rrc03.ripe.net	80.249.208.200	8455	x	3356
rrc03.ripe.net	80.249.209.211	12859	x	3356
rrc03.ripe.net	80.249.210.85	3320	x	3356
rrc03.ripe.net	80.249.208.122	25160	x	3356
rrc03.ripe.net	80.249.210.163	6461	x	3356
rrc03.ripe.net	80.249.210.163	51185	x	3356
rrc03.ripe.net	193.239.116.60	399580	x	3356
rrc03.ripe.net	193.239.117.30	41047	x	3356
rrc03.ripe.net	80.249.211.161	8283	x	3356
rrc03.ripe.net	80.249.208.209	51088	x	3356
rrc03.ripe.net	80.249.213.102	47147	x	3356
rrc03.ripe.net	80.249.209.176	14907	x	3356
rrc03.ripe.net	80.249.211.237	199938	x	3356
rrc03.ripe.net	80.249.213.131	39351	x	3356
rrc03.ripe.net	80.249.210.150	199524	x	3356
rrc03.ripe.net	80.249.210.134	34019	x	3356
rrc04.ripe.net	192.65.185.157	12350	x	3356
rrc04.ripe.net	192.65.185.195	15547	x	3356
rrc04.ripe.net	192.65.185.141	6730	x	3356
rrc04.ripe.net	192.65.185.3	513	x	3356
rrc04.ripe.net	192.65.185.142	20932	x	3356
rrc04.ripe.net	192.65.185.244	25091	x	3356
rrc04.ripe.net	192.65.185.140	29222	x	3356
rrc05.ripe.net	193.203.0.182	48362	x	3356
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rrc05.ripe.net	193.203.0.75	40994	x	3356
rrc05.ripe.net	193.203.0.145	31510	x	3356
rrc05.ripe.net	193.203.0.213	51184	x	3356
rrc05.ripe.net	193.203.0.63	6720	x	3356
rrc05.ripe.net	193.203.0.245	59890	x	3356
rrc05.ripe.net	193.203.0.192	47692	x	3356
rrc05.ripe.net	193.203.0.45	8218	x	3356
rrc05.ripe.net	193.203.0.157	35369	x	3356
rrc05.ripe.net	193.203.0.91	13237	x	3356
rrc06.ripe.net	202.249.2.20	4777	x	3356
rrc06.ripe.net	202.249.2.169	2497	x	3356
rrc06.ripe.net	202.249.2.185	25152	x	3356





route-views2.saop	November 5, 2024 10:08 PM 187.16.222.211	263009		
route-views2.saopaulo	187.16.217.27	28329	x	3356
route-views2.saopaulo	187.16.218.138	268976	x	3356
route-views2.saopaulo	187.16.220.216	52873	x	3356
route-views2.saopaulo	187.16.221.193	37468	x	3356
route-views2.saopaulo	187.16.222.229	199524	x	3356
route-views2.saopaulo	187.16.209.243	271253	x	3356
route-views2.saopaulo	187.16.219.247	263541	x	3356
route-views.ny	206.82.104.251	64289	x	3356
route-views.ny	206.82.104.161	11399	x	3356
route-views.ny	206.82.104.104	20253	x	3356
route-views.ny	206.82.104.185	398465	x	3356
route-views.ny	206.82.104.63	49544	x	3356
route-views.rio	45.6.52.193	52320	x	3356
route-views.rio	45.6.52.62	267613	x	3356
route-views.rio	45.6.55.32	52468	x	3356
route-views.rio	45.6.54.171	199524	x	3356
route-views.rio	45.6.54.203	6057	x	3356
route-views.rio	45.6.55.134	20253	x	3356
route-views.rio	45.6.53.167	264479	x	3356
route-views.rio	45.6.54.199	999	x	3356
route-views.telxatl	206.126.110.28	4181	x	3356
route-views.telxatl	206.126.110.12	19151	x	3356
route-views.telxatl	206.126.110.75	6939	x	3356
route-views.telxatl	206.126.110.155	53828	x	3356
route-views.telxatl	206.126.110.152	6082	x	3356
route-views.telxatl	206.126.110.118	20253	x	3356
route-views.soxrs	185.1.27.32	199524	x	3356
pit.scl	45.68.16.3	64112	x	3356
route-views.phoix	198.32.172.170	150000	x	3356
route-views.sfmix	206.197.187.51	64289	x	3356
route-views.sfmix	206.197.187.106	34927	x	3356
route-views.sfmix	206.197.187.41	35008	x	3356
route-views.sfmix	206.197.187.70	20253	x	3356





route-views.fr	118	20253	x	3356
route-views.fr	199524			
pit.scl	45.68.16.3	64112	x	3356
route-views.phoix	198.32.172.170	150000	x	3356
route-views.sfmix	206.197.187.51	64289	x	3356
route-views.sfmix	206.197.187.106	34927	x	3356
route-views.sfmix	206.197.187.41	35008	x	3356
route-views.sfmix	206.197.187.70	20253	x	3356
route-views.sfmix	206.197.187.85	397131	x	3356
route-views.sfmix	206.197.187.87	49544	x	3356
route-views.sg	27.111.229.103	9002	x	3356
route-views.sg	27.111.229.123	8220	x	3356
route-views.sg	27.111.228.159	24482	x	3356
route-views.sg	27.111.229.252	16552	x	3356
route-views.sg	27.111.228.155	7713	x	3356
route-views.sg	27.111.229.225	49544	x	3356
route-views.sg	27.111.228.222	199524	x	3356
route-views.sg	27.111.228.43	3491	x	3356
route-views.sg	27.111.229.175	58511	x	3356
route-views.sg	27.111.228.77	7713	x	3356
route-views.sg	27.111.228.134	132337	x	3356
route-views.sg	27.111.228.127	17660	x	3356
route-views.sg	27.111.228.6	18106	x	3356
route-views.wide	202.249.2.86	7500	x	3356
route-views.wide	202.249.2.169	2497	x	3356
route-views.wide	202.249.2.83	2500	x	3356
decix.jhb	103.162.254.114	199524	x	3356
route-views.nwax	198.32.195.30	6423	x	3356
route-views.perth	218.100.52.219	199524	x	3356
route-views.perth	218.100.76.17	140627	x	3356
route-views.perth	218.100.76.80	136557	x	3356
route-views.perth	218.100.52.247	136557	x	3356
route-views.perth	218.100.76.10	58511	x	3356
route-views.perth	27.106.192.5	58511	x	3356
route-views.perth	218.100.78.46	140627	x	3356
route-views.perth	218.100.76.5	7594	x	3356
route-views.perth	218.100.78.35	58511	x	3356
route-views.perth	218.100.52.56	58511	x	3356
route-views.perth	218.100.52.60	49544	x	3356
route-views.perth	218.100.78.98	136557	x	3356



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route-views	208.51.134.255	20912	x	3356
route-views		2914		
route-views	208.51.134.255	3549	x	3356
rrc01.ripe.net	195.66.224.89	6830	x	3356
rrc01.ripe.net	195.66.224.193	9002	x	3356
rrc01.ripe.net	5.57.81.21	6908	x	3356
rrc01.ripe.net	5.57.81.231	917	x	3356
rrc01.ripe.net	195.66.227.105	34927	x	3356
rrc01.ripe.net	5.57.81.186	6894	x	3356
rrc01.ripe.net	5.57.81.76	36924	x	3356
rrc01.ripe.net	195.66.225.216	25160	x	3356
rrc01.ripe.net	195.66.227.193	6233	x	3356
rrc01.ripe.net	5.57.80.210	8218	x	3356
rrc01.ripe.net	195.66.227.163	1299	x	3356
rrc01.ripe.net	195.66.227.195	3170	x	3356
rrc01.ripe.net	195.66.226.232	12969	x	3356
rrc01.ripe.net	195.66.225.212	6424	x	3356
rrc01.ripe.net	195.66.224.138	2914	x	3356
rrc01.ripe.net	195.66.224.26	396998	x	3356
rrc01.ripe.net	195.66.227.233	207841	x	3356
rrc01.ripe.net	5.57.81.127	48070	x	3356
rrc01.ripe.net	195.66.224.76	6461	x	3356
rrc01.ripe.net	195.66.226.113	42473	x	3356
rrc01.ripe.net	5.57.81.210	31742	x	3356
rrc01.ripe.net	195.66.226.13	8896	x	3356
rrc01.ripe.net	195.66.227.148	14630	x	3356
rrc01.ripe.net	195.66.226.31	12779	x	3356
rrc01.ripe.net	5.57.81.216	35266	x	3356
rrc01.ripe.net	195.66.224.167	3491	x	3356
rrc01.ripe.net	195.66.226.97	39122	x	3356
rrc01.ripe.net	195.66.224.137	3320	x	3356
rrc01.ripe.net	195.66.224.175	13030	x	3356
rrc01.ripe.net	195.66.231.56	271253	x	3356
rrc01.ripe.net	195.66.225.32	6908	x	3356
rrc01.ripe.net	195.66.224.81	1828	x	3356
rrc01.ripe.net	195.66.225.48	62167	x	3356
rrc01.ripe.net	195.66.226.38	24482	x	3356
rrc01.ripe.net	195.66.224.32	3257	x	3356
rrc12.ripe.net	80.81.192.231	57695	x	3356
rrc12.ripe.net	80.81.192.175	553	x	3356



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rrc01.ripe.net		62167	x	
rrc01.ripe.net		24482		
rrc01.ripe.net	195.66.224.32	3257	x	3356
rrc12.ripe.net	80.81.192.231	57695	x	3356
rrc12.ripe.net	80.81.192.175	553	x	3356
rrc12.ripe.net	80.81.194.45	205112	x	3356
rrc12.ripe.net	80.81.196.156	34927	x	3356
rrc12.ripe.net	80.81.195.35	35710	x	3356
rrc12.ripe.net	80.81.195.178	206356	x	3356
rrc12.ripe.net	80.81.193.252	199524	x	3356
rrc12.ripe.net	80.81.194.140	25220	x	3356
rrc12.ripe.net	80.81.192.46	2914	x	3356
rrc12.ripe.net	80.81.193.139	48362	x	3356
rrc12.ripe.net	80.81.195.219	58057	x	3356
rrc12.ripe.net	80.81.193.194	48919	x	3356
rrc12.ripe.net	80.81.194.119	34288	x	3356
rrc12.ripe.net	80.81.192.162	24961	x	3356
rrc12.ripe.net	80.81.195.98	6233	x	3356
rrc12.ripe.net	80.81.196.110	3257	x	3356
rrc12.ripe.net	80.81.193.18	24482	x	3356
rrc12.ripe.net	80.81.194.59	29140	x	3356
rrc12.ripe.net	80.81.196.189	21412	x	3356
rrc12.ripe.net	80.81.194.26	6461	x	3356
rrc12.ripe.net	80.81.196.225	213151	x	3356
rrc12.ripe.net	80.81.195.166	47147	x	3356
rrc12.ripe.net	80.81.192.194	6762	x	3356
rrc12.ripe.net	80.81.195.171	64475	x	3356
rrc12.ripe.net	80.81.194.100	47692	x	3356
rrc12.ripe.net	80.81.192.222	680	x	3356
rrc12.ripe.net	80.81.194.186	12779	x	3356
rrc12.ripe.net	80.81.196.197	58299	x	3356
rrc12.ripe.net	80.81.192.13	8218	x	3356
rrc12.ripe.net	80.81.197.27	210937	x	3356
rrc12.ripe.net	80.81.193.145	34019	x	3356
rrc12.ripe.net	80.81.193.247	35598	x	3356
rrc12.ripe.net	80.81.193.65	51184	x	3356
rrc12.ripe.net	80.81.194.240	50629	x	3356
rrc07.ripe.net	194.68.123.191	199524	x	3356
rrc07.ripe.net	194.68.123.157	9002	x	3356
rrc07.ripe.net	194.68.123.57	3399	x	3356





route-views	218.100.78.98	49544		
route-views.pern	45.127.173.76	136557	x	3356
route-views.sydney	45.127.173.76	398465	x	3356
route-views.sydney	45.127.172.46	7575	x	3356
route-views.sydney	45.127.172.80	3491	x	3356
route-views.sydney	45.127.172.149	58511	x	3356
route-views.sydney	45.127.172.152	132847	x	3356
route-views.sydney	45.127.173.66	7594	x	3356
route-views.sydney	45.127.172.67	148968	x	3356
route-views.sydney	45.127.173.20	8888	x	3356
route-views.sydney	45.127.172.196	24516	x	3356
route-views.sydney	45.127.173.71	16552	x	3356
route-views.sydney	45.127.172.78	199524	x	3356
route-views.sydney	45.127.172.74	4826	x	3356
route-views.sydney	45.127.173.40	135895	x	3356
route-views.uaeix	185.1.8.23	60924	x	3356
route-views.uaeix	185.1.8.11	42473	x	3356
route-views.uaeix	185.1.8.59	49544	x	3356
route-views.uaeix	185.1.8.114	199524	x	3356
route-views	198.58.198.252	1403	x	3356
route-views	206.24.210.80	3561	x	3356
route-views	91.218.184.60	49788	x	3356
route-views	202.232.0.3	2497	x	3356
route-views	37.139.139.17	57866	x	3356
route-views	137.164.16.84	2152	x	3356
route-views	105.16.0.247	37100	x	3356
route-views	64.71.137.241	6939	x	3356
route-views	89.149.178.10	3257	x	3356
route-views	94.156.252.18	34224	x	3356
route-views	147.28.7.2	3130	x	3356
route-views	202.73.40.45	18106	x	3356
route-views	45.61.0.85	22652	x	3356
route-views	168.209.255.56	3741	x	3356
route-views	217.192.89.50	3303	x	3356
route-views	12.0.1.63	7018	x	3356
route-views	140.192.8.16	20130	x	3356
route-views	77.39.192.30	20912	x	3356
route-views	129.250.1.71	2914	x	3356
route-views	208.51.134.255	3549	x	3356



November 5, 2024

10:08 PM

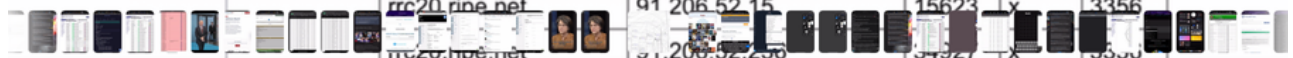
199524

9002

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rrc07.ripe.net	194.68.123.18	42473	x	3356
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rrc07.ripe.net	194.68.123.96	35280	x	3356
rrc07.ripe.net	194.68.123.226	24482	x	3356
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rrc10.ripe.net	217.29.67.13	57111	x	3356
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rrc10.ripe.net	217.29.66.86	12637	x	3356
rrc10.ripe.net	217.29.66.88	20811	x	3356
rrc10.ripe.net	217.29.66.127	49605	x	3356
rrc10.ripe.net	217.29.66.102	51185	x	3356
rrc10.ripe.net	217.29.67.55	199524	x	3356
rrc18.ripe.net	193.242.98.141	29680	x	3356
route-views3	64.250.124.15	23367	x	3356
route-views3	158.106.197.135	46450	x	3356
route-views3	104.251.122.1	14315	x	3356
route-views3	206.198.182.15	23367	x	3356
route-views3	162.211.99.255	55222	x	3356
route-views3	206.24.210.80	3561	x	3356
route-views3	94.101.60.146	39120	x	3356
route-views3	190.15.124.18	61568	x	3356
route-views3	195.239.77.236	3216	x	3356
route-views3	205.171.8.123	209	x	3356
route-views3	89.149.178.10	3257	x	3356
route-views3	89.21.210.86	39120	x	3356
route-views3	203.62.187.103	9268	x	3356
route-views3	64.71.137.241	6939	x	3356
route-views3	67.219.192.5	19653	x	3356
route-views3	203.62.187.102	9268	x	3356



rrc24.ripe.net	November 5, 2024	264845		
rrc24.ripe.net	172.17.10.2	270014	x	3356
rrc24.ripe.net	168.195.131.1	263702	x	3356
rrc24.ripe.net	45.165.81.17	53427	x	3356
rrc24.ripe.net	200.40.162.202	6057	x	3356
rrc24.ripe.net	138.122.60.1	61573	x	3356
rrc24.ripe.net	5.188.4.211	46997	x	3356
rrc24.ripe.net	185.197.26.1	49544	x	3356
rrc24.ripe.net	185.197.24.1	49544	x	3356
rrc24.ripe.net	186.211.128.34	14840	x	3356
rrc24.ripe.net	45.65.244.1	265721	x	3356
rrc24.ripe.net	186.211.136.32	14840	x	3356
rrc24.ripe.net	186.211.184.34	14840	x	3356
rrc26.ripe.net	185.1.8.59	49544	x	3356
rrc26.ripe.net	185.1.8.50	200612	x	3356
rrc26.ripe.net	185.1.8.3	48237	x	3356
route-views5	202.165.70.255	137409	x	3356
route-views5	103.203.242.1	955	x	3356
route-views5	193.148.248.178	60539	x	3356
route-views5	91.216.79.0	41666	x	3356
route-views5	103.26.244.151	132884	x	3356
route-views5	185.197.26.1	49544	x	3356
route-views5	192.108.73.66	13058	x	3356
route-views5	203.62.252.92	1221	x	3356
route-views5	170.39.196.254	33185	x	3356
route-views5	185.156.96.227	207934	x	3356
route-views5	65.19.141.130	199518	x	3356
route-views5	103.247.3.142	58511	x	3356
route-views5	45.94.151.1	208594	x	3356
route-views5	103.247.3.36	58511	x	3356
route-views5	185.197.24.1	49544	x	3356
route-views5	188.122.95.61	49544	x	3356
route-views5	5.180.58.0	56987	x	3356
route-views5	207.2.125.0	19529	x	3356
route-views5	23.155.8.1	22296	x	3356
route-views5	207.2.124.0	19529	x	3356
rrc20.ripe.net	91.206.52.90	59414	x	3356
rrc20.ripe.net	91.206.52.180	62167	x	3356
rrc20.ripe.net	91.206.52.115	6461	x	3356
rrc20.ripe.net	91.206.52.15	15623	x	3356
rrc20.ripe.net	91.206.52.250	53427	x	3356





route-views5	November 5, 2024	49544		
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route-views5	65.19.141.130	199518	x	3356
route-views5	103.247.3.142	58511	x	3356
route-views5	45.94.151.1	208594	x	3356
route-views5	103.247.3.36	58511	x	3356
route-views5	185.197.24.1	49544	x	3356
route-views5	188.122.95.61	49544	x	3356
route-views5	5.180.58.0	56987	x	3356
route-views5	207.2.125.0	19529	x	3356
route-views5	23.155.8.1	22296	x	3356
route-views5	207.2.124.0	19529	x	3356
rrc20.ripe.net	91.206.52.90	59414	x	3356
rrc20.ripe.net	91.206.52.180	62167	x	3356
rrc20.ripe.net	91.206.52.115	6461	x	3356
rrc20.ripe.net	91.206.52.15	15623	x	3356
rrc20.ripe.net	91.206.52.236	34927	x	3356
rrc20.ripe.net	91.206.52.116	8218	x	3356
rrc20.ripe.net	91.206.53.35	57777	x	3356
rrc20.ripe.net	91.206.52.117	25091	x	3356
rrc20.ripe.net	91.206.52.205	24482	x	3356
rrc20.ripe.net	91.206.52.127	20612	x	3356
rrc20.ripe.net	91.206.52.6	8758	x	3356
rrc20.ripe.net	91.206.52.126	20612	x	3356
rrc20.ripe.net	91.206.52.103	196621	x	3356
rrc20.ripe.net	91.206.52.246	51786	x	3356
rrc20.ripe.net	91.206.52.197	51873	x	3356
rrc20.ripe.net	91.206.52.141	59891	x	3356
rrc20.ripe.net	91.206.52.68	12307	x	3356
rrc20.ripe.net	91.206.52.32	21232	x	3356
rrc20.ripe.net	91.206.52.5	47147	x	3356
rrc20.ripe.net	2001:7f8:24::b1	58057	x	3356
rrc20.ripe.net	91.206.52.40	48362	x	3356
rrc20.ripe.net	91.206.52.109	198385	x	3356
rrc20.ripe.net	91.206.52.9	29691	x	3356
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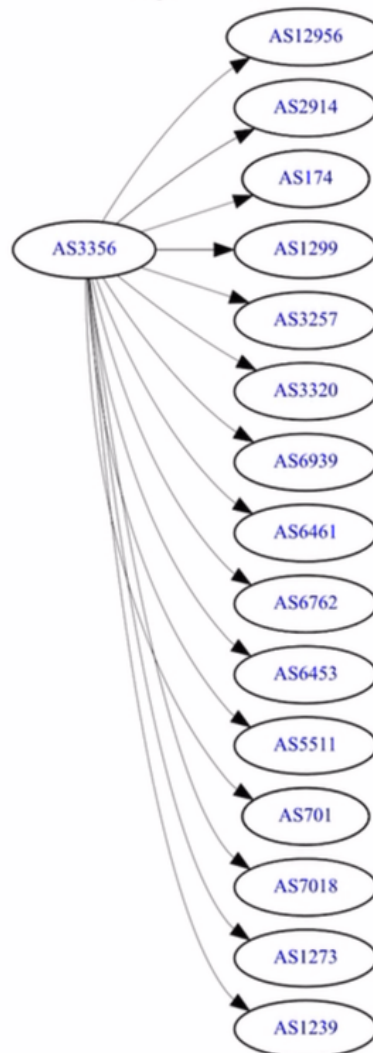
Quick Links

- GP Toolkit Home
- GP Prefix Report
- GP Peer Report
- uper Traceroute
- uper Looking Glass
- xchange Report
- ogon Routes
- 'orld Report
- ulti Origin Routes
- NS Report
- op Host Report
- ternet Statistics
- oking Glass
- etwork Tools App
- 'ee IPv6 Tunnel
- 'v6 Certification
- 'v6 Progress
- oing Native
- redits
- ontact Us

- Network Info
- Whois
- RDAP
- DNS
- IRR
- Propagation
- Visibility
- Routes

REALTIME

Origin AS3356



RPKI Originated Valid (all): 13
RPKI Originated Valid (v4): 11
RPKI Originated Valid (v6): 2

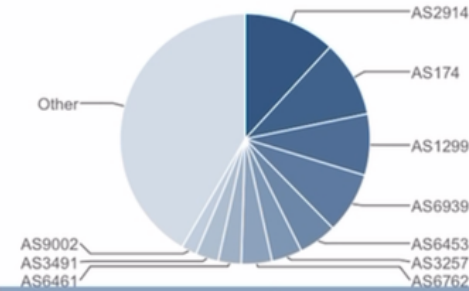
RPKI Originated Invalid (all): 13
RPKI Originated Invalid (v4): 11
RPKI Originated Invalid (v6): 2

BGP Peers Observed (all): 6,748
BGP Peers Observed (v4): 6,661
BGP Peers Observed (v6): 2,393

IPs Originated (v4): 29,844,736
AS Paths Observed (v4): 200,508
AS Paths Observed (v6): 76,878

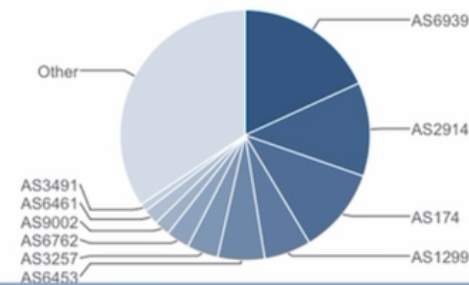
Average AS Path Length (all): 4.012
Average AS Path Length (v4): 4.011
Average AS Path Length (v6): 4.016

AS3356 IPv4 Peers



ASN	Name
AS2914	NTT America, Inc.
AS174	Cogent Communications
AS1299	Arelion Sweden AB
AS6939	Hurricane Electric LLC
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS3257	GTT Communications Inc.
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS6461	Zayo Bandwidth
AS3491	PCCW Global, Inc.
AS9002	RETN Limited

AS3356 IPv6 Peers



ASN	Name
AS6939	Hurricane Electric LLC
AS2914	NTT America, Inc.
AS174	Cogent Communications
AS1299	Arelion Sweden AB
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS3257	GTT Communications Inc.
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS6461	Zayo Bandwidth



AS3356 Level 3 Parent, LLC

Quick Links

GP Toolkit Home
GP Prefix Report
GP Peer Report
uper Traceroute
uper Looking Glass
xchange Report
ogon Routes
'orld Report
ulti Origin Routes
NS Report
p Host Report
ternet Statistics
ooking Glass
etwork Tools App
ee IPv6 Tunnel
v6 Certification
v6 Progress
oing Native
redits
ontact Us

AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

Company Website: <http://www.lumen.com>
Company Looking Glass: <https://lookingglass.centurylink.com/>

Country of Origin: United States



Internet Exchanges: 8

Prefixes Originated (all): 1,267
Prefixes Originated (v4): 1,180
Prefixes Originated (v6): 87

Prefixes Announced (all): 274,622
Prefixes Announced (v4): 241,922
Prefixes Announced (v6): 32,700

RPKI Originated Valid (all): 113
RPKI Originated Valid (v4): 107
RPKI Originated Valid (v6): 6

RPKI Originated Invalid (all): 13
RPKI Originated Invalid (v4): 11
RPKI Originated Invalid (v6): 2

BGP Peers Observed (all): 6,748
BGP Peers Observed (v4): 6,661
BGP Peers Observed (v6): 2,393

IPs Originated (v4): 29,844,736
AS Paths Observed (v4): 200,508
AS Paths Observed (v6): 76,878

Average AS Path Length (all): 4.012
Average AS Path Length (v4): 4.011
Average AS Path Length (v6): 4.016

Please verify you are a human

PRESS & HOLD

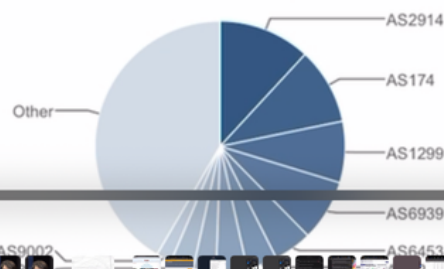
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AS3356 IPv4 Peers



November 5, 2024
10:08 PM 48.155.30

route-views3	205.171.3.54	209	x	3356
route-views	210.5.41.225	45352	x	3356
route-views3	202.150.221.33	38001	x	3356
route-views3	72.36.126.8	40387	x	3356
route-views3	195.239.252.124	3216	x	3356
route-views3	205.171.200.245	209	x	3356
rrc21.ripe.net	37.49.236.246	2613	x	3356
rrc21.ripe.net	37.49.236.71	34019	x	3356
rrc21.ripe.net	37.49.236.55	35600	x	3356
rrc21.ripe.net	37.49.236.36	16347	x	3356
rrc21.ripe.net	37.49.236.1	8218	x	3356
rrc21.ripe.net	37.49.237.231	35426	x	3356
rrc21.ripe.net	37.49.236.61	8426	x	3356
rrc21.ripe.net	37.49.237.175	199524	x	3356
rrc21.ripe.net	37.49.236.177	12779	x	3356
rrc21.ripe.net	37.49.236.172	58308	x	3356
rrc21.ripe.net	37.49.236.205	29075	x	3356
rrc21.ripe.net	37.49.237.180	6461	x	3356
rrc21.ripe.net	37.49.237.83	25091	x	3356
rrc21.ripe.net	37.49.236.249	49434	x	3356
rrc21.ripe.net	37.49.236.228	24482	x	3356
rrc21.ripe.net	37.49.237.143	50628	x	3356
rrc21.ripe.net	37.49.236.32	34177	x	3356
rrc21.ripe.net	37.49.232.7	8218	x	3356
rrc21.ripe.net	37.49.232.11	14907	x	3356
rrc21.ripe.net	37.49.236.27	2027	x	3356
rrc21.ripe.net	37.49.236.156	15547	x	3356
rrc22.ripe.net	86.104.125.59	56430	x	3356
rrc22.ripe.net	86.104.125.81	31554	x	3356
rrc23.ripe.net	27.111.229.245	35280	x	3356
rrc23.ripe.net	27.111.228.222	199524	x	3356
rrc23.ripe.net	27.111.228.218	396998	x	3356
rrc23.ripe.net	27.111.228.6	18106	x	3356
rrc23.ripe.net	27.111.229.225	49544	x	3356
rrc23.ripe.net	27.111.228.186	14907	x	3356
rrc23.ripe.net	27.111.229.103	9002	x	3356
rrc23.ripe.net	27.111.228.43	3491	x	3356
rrc24.ripe.net	190.112.55.254	264845	x	3356

November 5, 2024

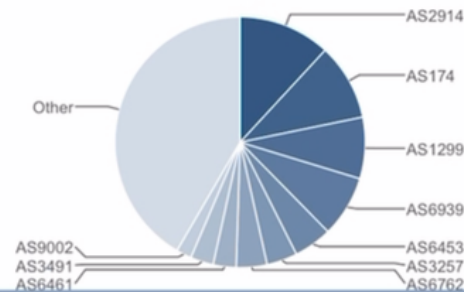
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BGP Peers Observed (all): 6,741
BGP Peers Observed (v4): 2,331
BGP Peers Observed (v6): 2,393

IPs Originated (v4): 29,844,736
AS Paths Observed (v4): 200,508
AS Paths Observed (v6): 76,878

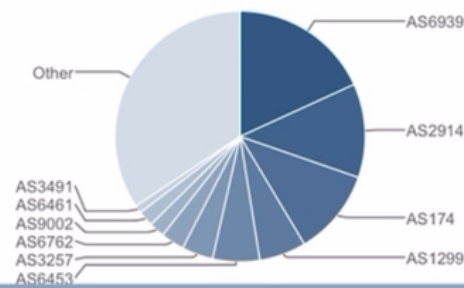
Average AS Path Length (all): 4.012
Average AS Path Length (v4): 4.011
Average AS Path Length (v6): 4.016

AS3356 IPv4 Peers



ASN	Name
AS2914	NTT America, Inc.
AS174	Cogent Communications
AS1299	Arelion Sweden AB
AS6939	Hurricane Electric LLC
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS3257	GTT Communications Inc.
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS6461	Zayo Bandwidth
AS3491	PCCW Global, Inc.
AS9002	RETN Limited

AS3356 IPv6 Peers



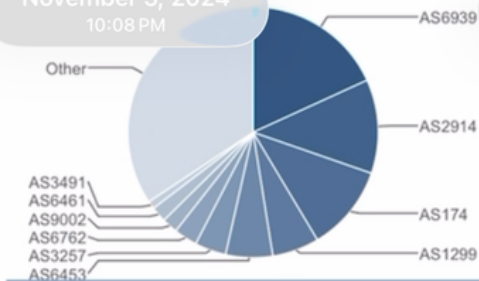
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AS6939	Hurricane Electric LLC
AS2914	NTT America, Inc.
AS174	Cogent Communications
AS1299	Arelion Sweden AB
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS3257	GTT Communications Inc.
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS9002	RETN Limited
AS6461	Zayo Bandwidth
AS3491	PCCW Global, Inc.

AS3356 IPv4 Peer Count

6,700



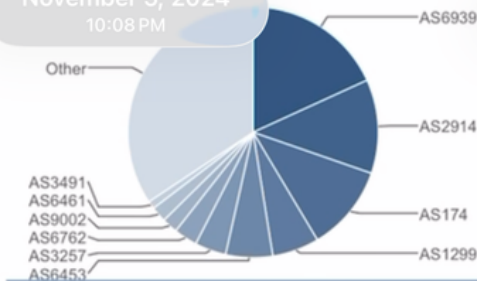
November 5, 2024
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ASN	Name
AS6939	Hurricane Electric LLC
AS2914	NTT America, Inc.
AS174	Cogent Communications
AS1299	Arelion Sweden AB
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS3257	GTT Communications Inc.
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS9002	RETN Limited
AS6461	Zayo Bandwidth
AS3491	PCCW Global, Inc.



November 5, 2024
10:08 PM



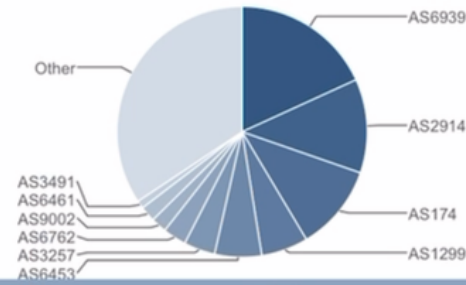
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AS2914	NTT America, Inc.
AS174	Cogent Communications
AS1299	Arelion Sweden AB
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS3257	GTT Communications Inc.
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS9002	RETN Limited
AS6461	Zayo Bandwidth
AS3491	PCCW Global, Inc.



November 5, 2024
10:08 PM

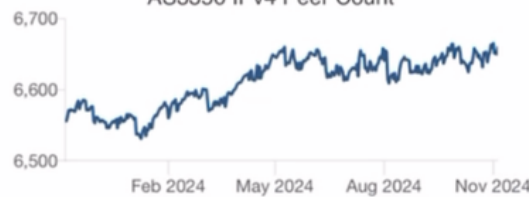
ASN	Name
AS2914	NTT America, Inc.
AS174	Cogent Communications
AS1299	Arelion Sweden AB
AS6939	Hurricane Electric LLC
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS3257	GTT Communications Inc.
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS6461	Zayo Bandwidth
AS3491	PCCW Global, Inc.
AS9002	RETN Limited

AS3356 IPv6 Peers

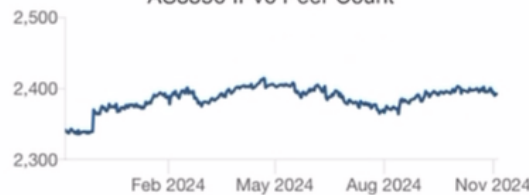


ASN	Name
AS6939	Hurricane Electric LLC
AS2914	NTT America, Inc.
AS174	Cogent Communications
AS1299	Arelion Sweden AB
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS3257	GTT Communications Inc.
AS6762	TELECOM ITALIA SPARKLE S.p.A.
AS9002	RETN Limited
AS6461	Zayo Bandwidth
AS3491	PCCW Global, Inc.

AS3356 IPv4 Peer Count

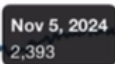


AS3356 IPv6 Peer Count



AS3356 IPv4 Prefixes Announced



AS3356 IPv4 Peer Count

AS3356 Level 3 Parent, LLC

- Quick Links**
- GP Toolkit Home
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 - GP Peer Report
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Whois RDAP IRR IX Traceroute

Company Website: <http://www.lumen.com>
Company Looking Glass: <https://lookingglass.centurylink.com/>

Country of Origin: United States

Internet Exchanges: 8

Prefixes Originated (all): 1,267
Prefixes Originated (v4): 1,180
Prefixes Originated (v6): 87

Prefixes Announced (all): 274,622
Prefixes Announced (v4): 241,922
Prefixes Announced (v6): 32,700

RPKI Originated Valid (all): 113
RPKI Originated Valid (v4): 107
RPKI Originated Valid (v6): 6

RPKI Originated Invalid (all): 13
RPKI Originated Invalid (v4): 11
RPKI Originated Invalid (v6): 2

BGP Peers Observed (all): 6,748
BGP Peers Observed (v4): 6,661
BGP Peers Observed (v6): 2,393

IPs Originated (v4): 29,844,736
AS Paths Observed (v4): 200,508
AS Paths Observed (v6): 76,878

Average AS Path Length (all): 4.012
Average AS Path Length (v4): 4.011
Average AS Path Length (v6): 4.016

Please verify you are a human

PRESS & HOLD

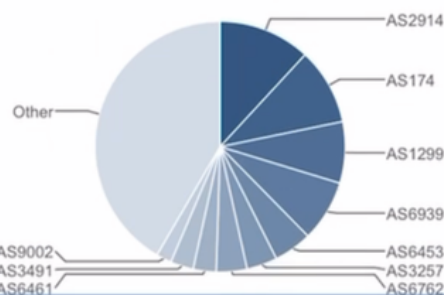
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AS3356 IPv4 Peers



ASN	Name
AS2914	NTT America, Inc.
AS174	Cogent Communications
AS1299	Arelion Sweden AB



Looking Glass Utilities provide expanded, drill-down information relative to backbone routing and efficiency of the network. Its capabilities include BGP Route Lookup, Ping, and Traceroute.

- * BGP (Border Gateway Protocol) allows you to view routing table entries for a specified prefix for a selected site. * PING allows you to view round trip time between a selected site and a specified IP address or hostname.
- * TRACEROUTE allows you to view all enabled router hops encountered in the path between a selected site and a specified IP address or hostname.

Information Category

- ☒ Ping
- ☐ Traceroute
- ☐ BGP Route Lookup

WHOIS

Source Site

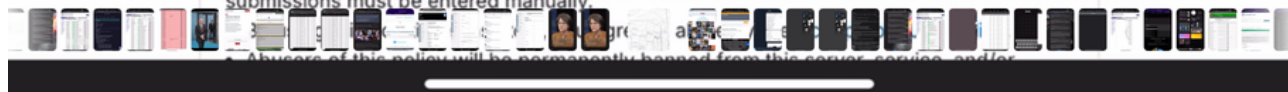
Albany-NY-USA

Destination Details

DNS Name or IP Address	X.X.X.X XXXX:XXXX:...
BGP Mask	/ XX
Ping Packet Size	64
Ping Packet Count	1

SUBMIT

• The Looking Glass tool is not to be used with any automated scripts/applications. All submissions must be entered manually.





AS2914 NTT America, Inc.

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Graph v4

Graph v6

Prefixes v4

Prefixes v6

Peers v4

Peers v6

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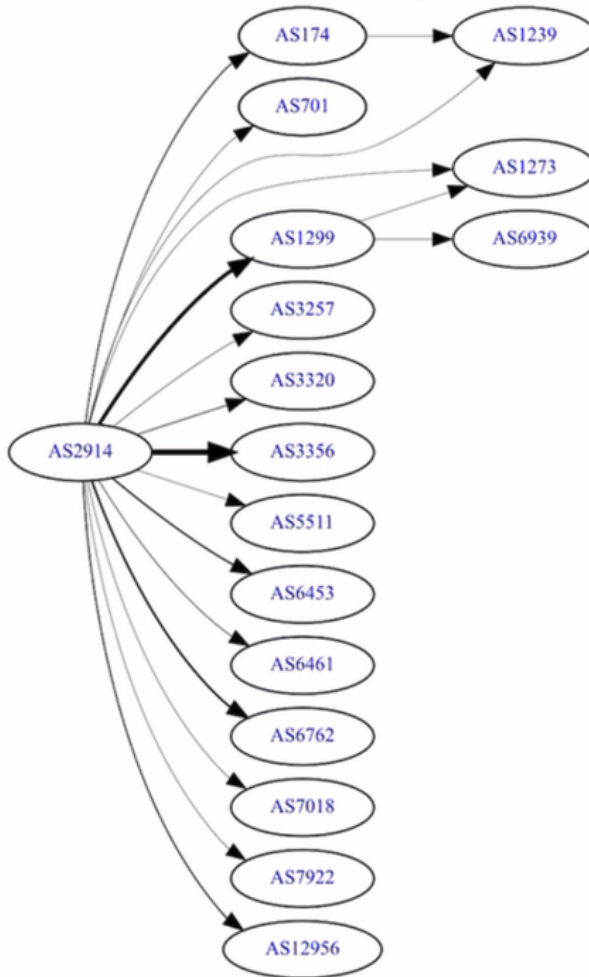
IRR

IX

Traceroute

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AS2914 IPv4 Route Propagation



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- ☒ Ping
☐ Traceroute
☐ BGP Route Lookup

WHOIS

Source Site

Albany-NY-USA

Destination Details

DNS Name or IP Address

X.X.X.X | XXXX:XXXX:...

BGP Mask

/ XX

Ping Packet Size

64

Ping Packet Count

1

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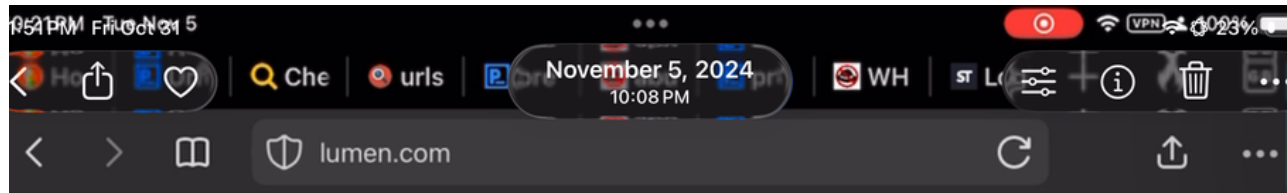
AS3356 Level 3 Parent, LLC

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AS3356 IPv4 Route Propagation





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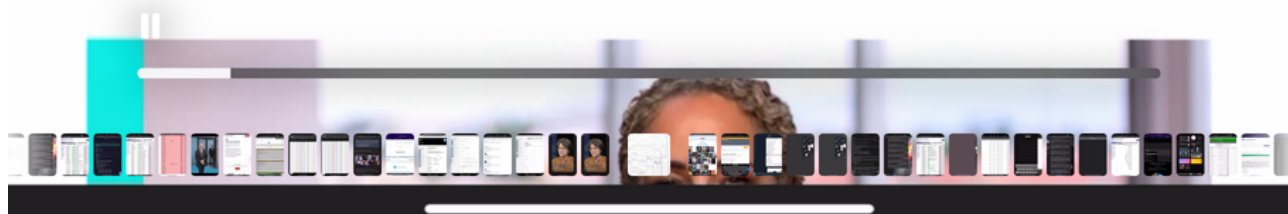
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Experience **what's next**

While IT leaders are navigating transformation in search of growth, too many IT solutions fail due to adoption challenges. At Lumen, we're reimagining the ways in which networking and cybersecurity solutions are delivered. From modernizing 9,500 locations for the USDA to helping Amazon Prime stream football to 15 million fans, we're sparking innovation and growth by putting the human experience first.

SEE WHY LUMEN





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Whois RDAP IRR IX Traceroute

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Country of Origin: United States



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Please verify you are a human

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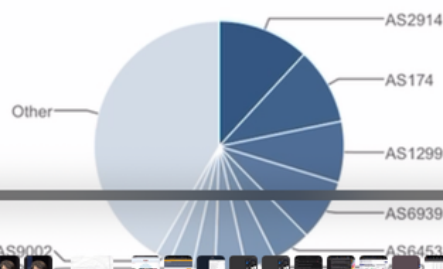
Access to this page has been denied because we believe you are using automation tools to browse the website.

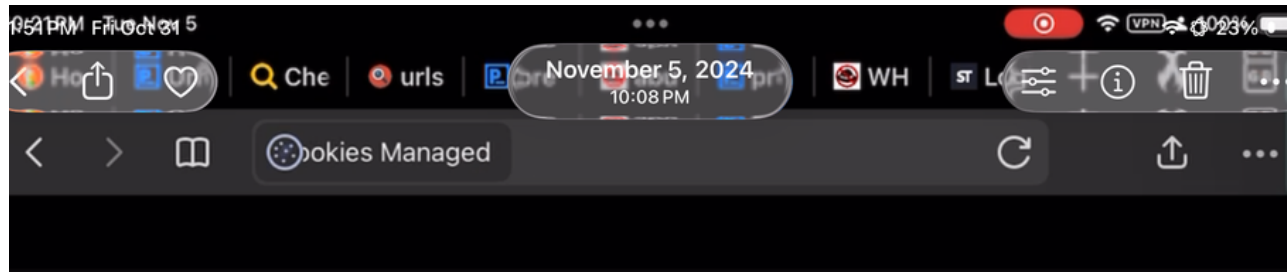
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AS3356 IPv4 Peers





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Traceroute

Company Website:

<http://www.lumen.com>

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<https://lookingglass.centurylink.com/>

Country of Origin:

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Average AS Path Length (v6): 4.016

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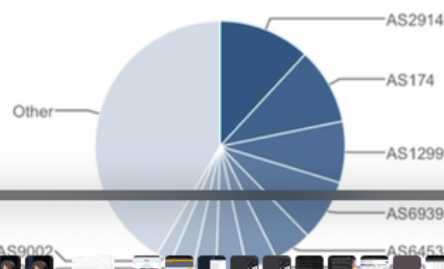
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Graph v6

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Prefixes v6

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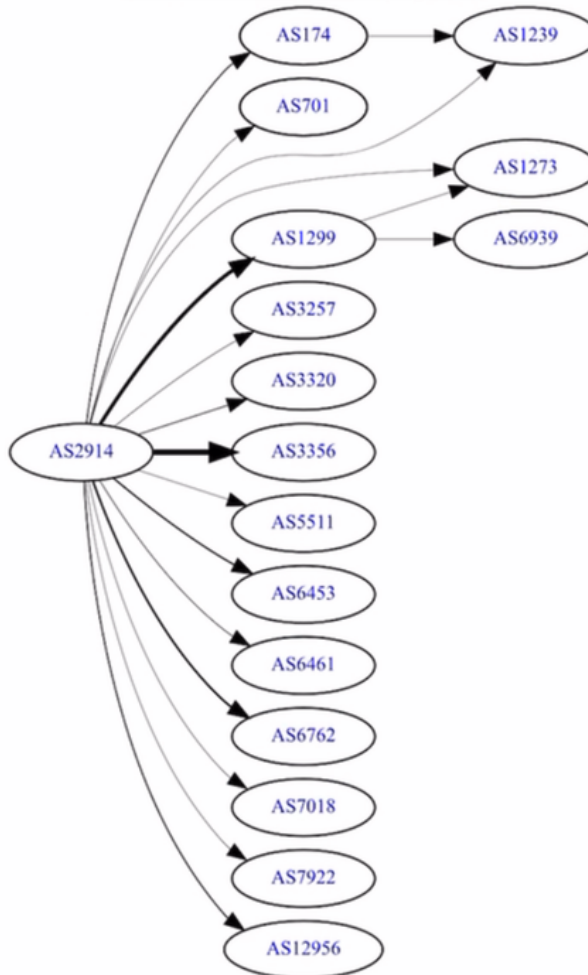
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AS2914 IPv4 Route Propagation





AS6939 Hurricane Electric LLC

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Prefixes v6

Peers v4

Peers v6

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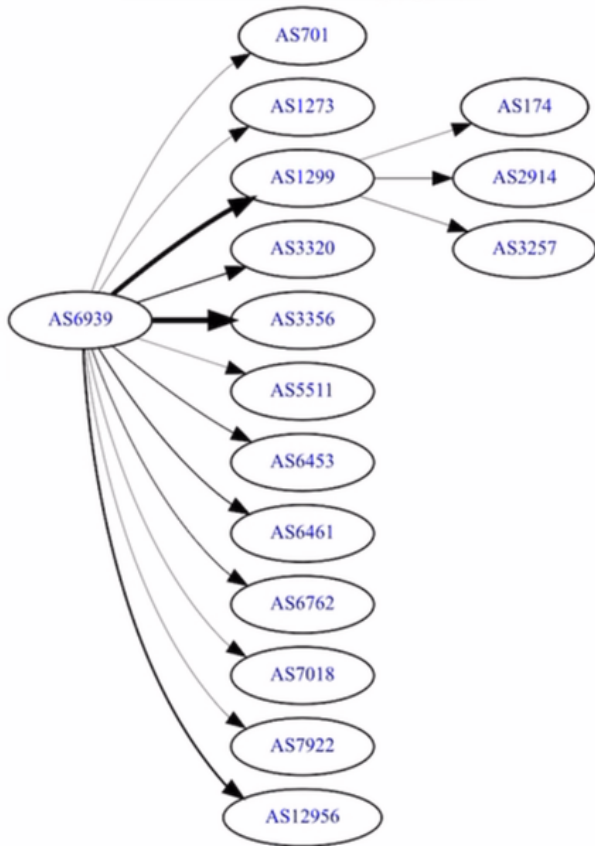
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AS6939 IPv4 Route Propagation





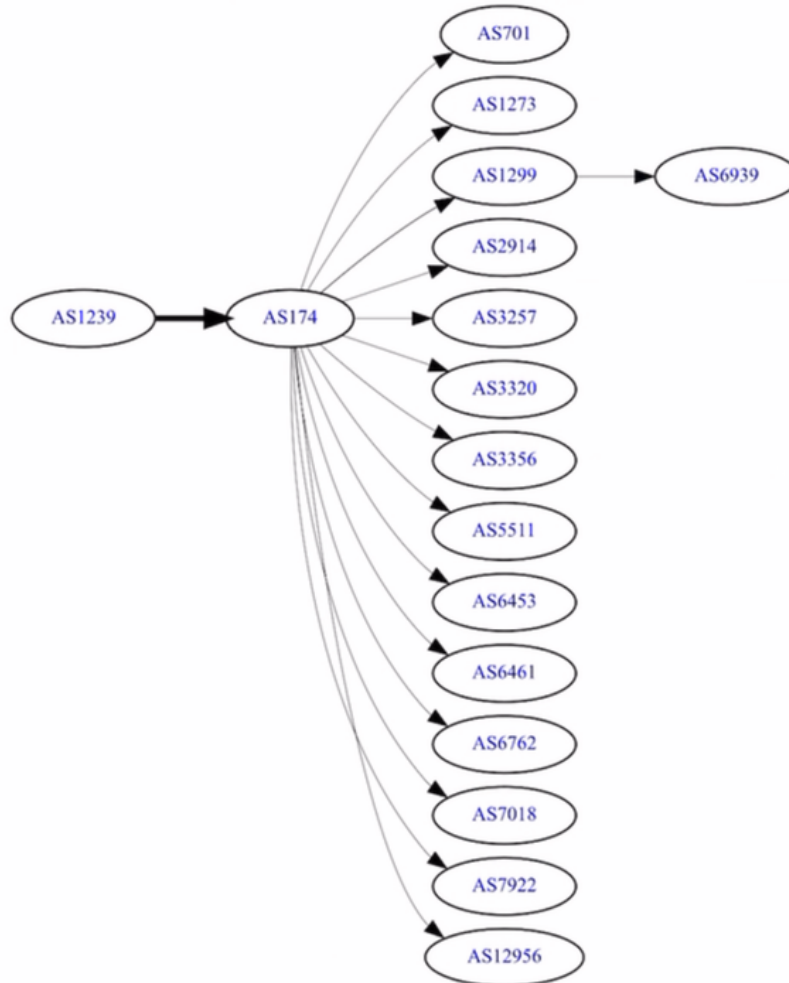
AS1239 Sprint

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AS1239 IPv4 Route Propagation





AS6939 Hurricane Electric LLC

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- internet Statistics
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Company Website: <http://he.net>
Company Looking Glass: <http://lg.he.net>
Company Route Server: <telnet://route-server.he.net>

Country of Origin: [United States](#)

Internet Exchanges: 319

Prefixes Originated (all): 309
Prefixes Originated (v4): 286
Prefixes Originated (v6): 23

Prefixes Announced (all): 210,567
Prefixes Announced (v4): 150,994
Prefixes Announced (v6): 59,573

RPKI Originated Valid (all): 246
RPKI Originated Valid (v4): 235
RPKI Originated Valid (v6): 11

RPKI Originated Invalid (all): 0
RPKI Originated Invalid (v4): 0
RPKI Originated Invalid (v6): 0

BGP Peers Observed (all): 10,554
BGP Peers Observed (v4): 9,245
BGP Peers Observed (v6): 6,919

IPs Originated (v4): 534,784
AS Paths Observed (v4): 133,048
AS Paths Observed (v6): 52,260

Average AS Path Length (all): 3.580
Average AS Path Length (v4): 3.624
Average AS Path Length (v6): 3.468

HURRICANE ELECTRIC
INTERNET SERVICES

Internet Backbone and Colocation

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Hurricane Electric

Hurricane Electric IP Transit

AS6939 IPv4 Peers



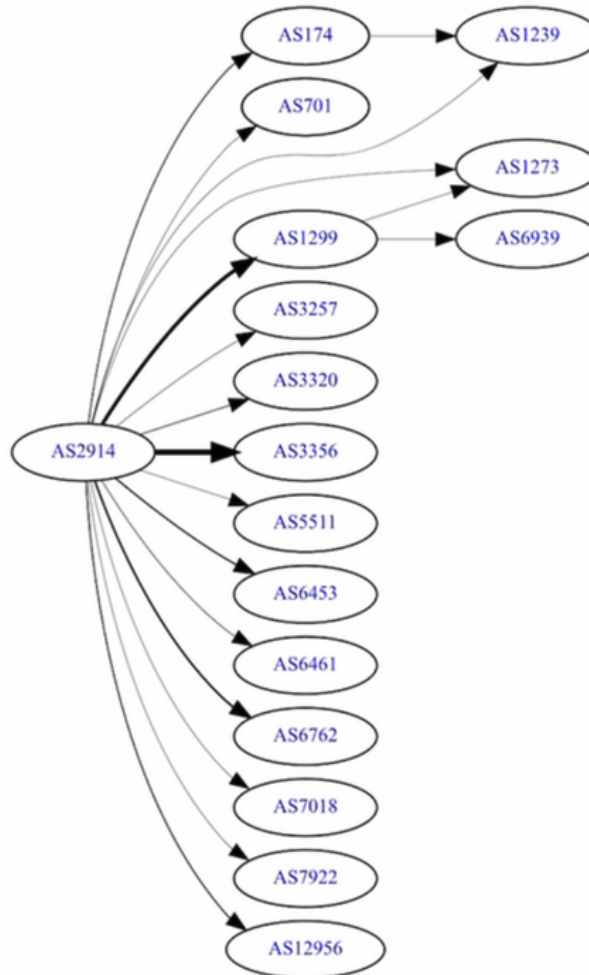
AS2914 NTT America, Inc.

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AS2914 IPv4 Route Propagation





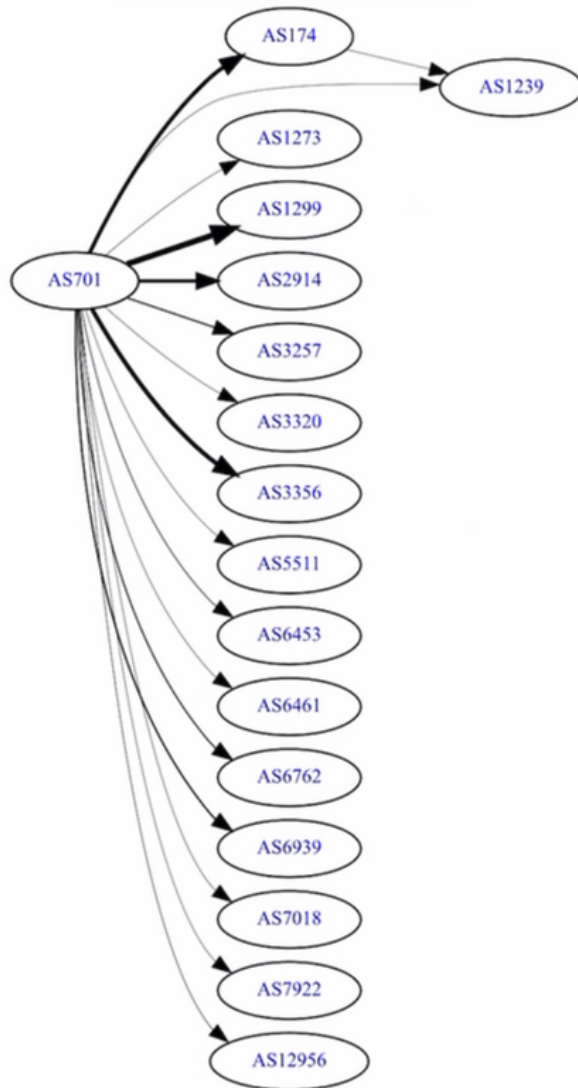
AS701 Verizon Business

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AS701 IPv4 Route Propagation





HURRICANE ELECTRIC INTERNET SERVICES

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Company Website:
Company Looking Glass:

<http://www.sprint.net>
<https://www.sprint.net/lg/>

Country of Origin:

United States

Internet Exchanges: 8

Prefixes Originated (all): 4,951
Prefixes Originated (v4): 4,718
Prefixes Originated (v6): 233

Prefixes Announced (all): 5,841
Prefixes Announced (v4): 5,560
Prefixes Announced (v6): 281

RPKI Originated Valid (all): 221
RPKI Originated Valid (v4): 195
RPKI Originated Valid (v6): 26

RPKI Originated Invalid (all): 391
RPKI Originated Invalid (v4): 370
RPKI Originated Invalid (v6): 21

BGP Peers Observed (all): 4,783
BGP Peers Observed (v4): 4,567
BGP Peers Observed (v6): 1,533

IPs Originated (v4): 38,968,064
AS Paths Observed (v4): 64,419
AS Paths Observed (v6): 12,320

Average AS Path Length (all): 3.832
Average AS Path Length (v4): 3.876
Average AS Path Length (v6): 3.604

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Sprint.net

This page will guide you to links for certain materials that appeared on

Customer Portal - eCogent (Note that eCogent replaces the Sprint Con

Network Performance and SLA

Maintenance Windows (Please also see the Cogent Customer User Gu

Cogent will perform regularly scheduled maintenance on the Cogent standard maintenance window from 00:00 AM to 06:00 AM local ti to which Customer's circuit is connected. Cogent will normally not scheduled maintenance at least two (2) business days in advance, i cases, maintenance performed will not take the full configuration i Cogent will provide more detail regarding the anticipated duration the email notification. In the event of unscheduled or emergency n will attempt to notify the customer via email and/or via telephone i the immediate need for maintenance. Unscheduled or emergency generally defined as maintenance necessary to avoid imminent ne

Upcoming Maintenance Windows can be found on our [Network St](#)

Downloadable Network Maps

AS1239 IPv4 Peers



HURRICANE ELECTRIC INTERNET SERVICES

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cogent

Home Sprint Portal

Sprint.net

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Downloadable Network Maps

AS1239 IPv4 Peers



AS1273 Vodafone Group PLC

Quick Links

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Prefixes v4

Prefixes v6

Peers v4

Peers v6

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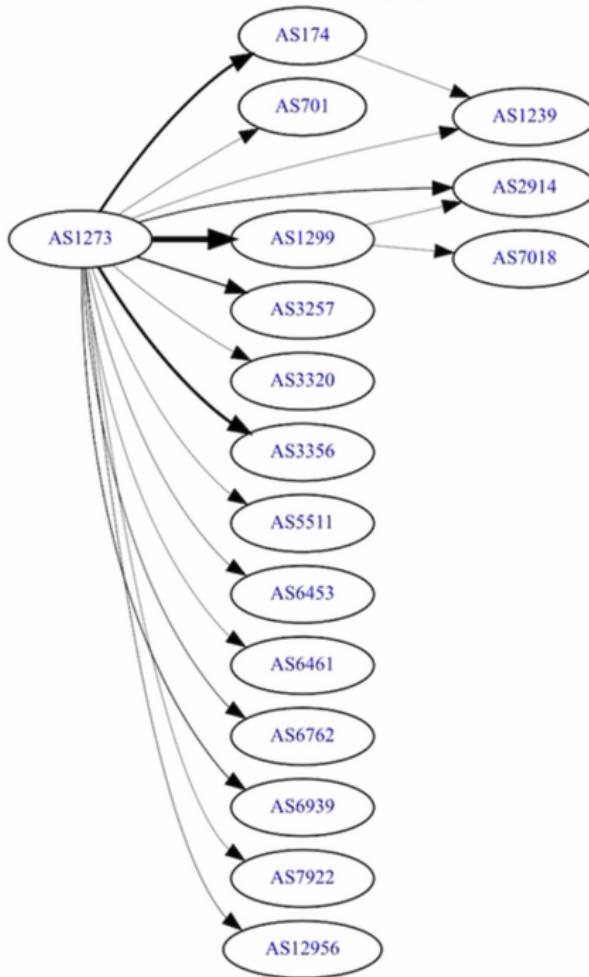
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AS1273 IPv4 Route Propagation





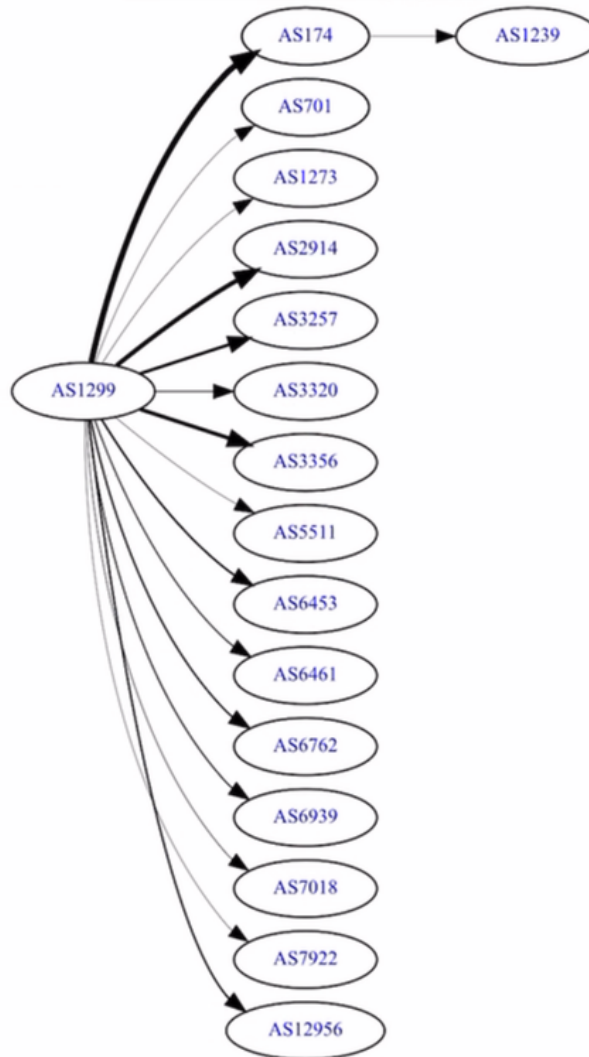
AS1299 Arelion Sweden AB

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AS1299 IPv4 Route Propagation





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AS1273 Vodafone Group PLC

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Company Website:

<http://www.vodafone.com>

Company Looking Glass:

<https://portal.vodafone.com/web/lo>

Country of Origin:

[United Kingdom](#)

Internet Exchanges: 22



Prefixes Originated (all): 179

Prefixes Originated (v4): 178

Prefixes Originated (v6): 1

Prefixes Announced (all): 25,683

Prefixes Announced (v4): 22,289

Prefixes Announced (v6): 3,394

RPKI Originated Valid (all): 91

RPKI Originated Valid (v4): 90

RPKI Originated Valid (v6): 1

RPKI Originated Invalid (all): 0

RPKI Originated Invalid (v4): 0

RPKI Originated Invalid (v6): 0

BGP Peers Observed (all): 276

BGP Peers Observed (v4): 266

BGP Peers Observed (v6): 187

IPs Originated (v4): 1,872,896

AS Paths Observed (v4): 71,464

AS Paths Observed (v6): 43,556

Average AS Path Length (all): 3.986

Average AS Path Length (v4): 3.944

Average AS Path Length (v6): 4.053

AS1273 IPv4 Peers



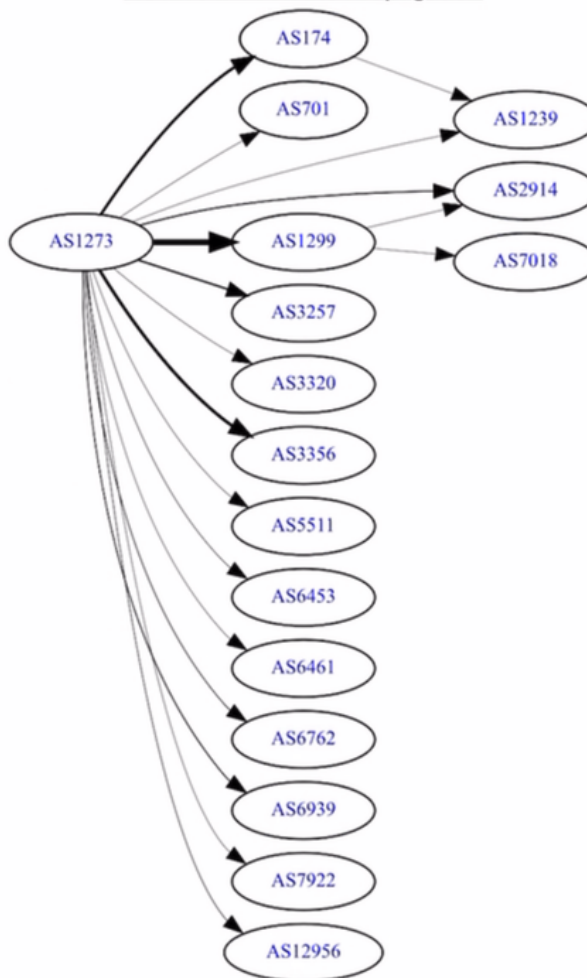
AS1273 Vodafone Group PLC

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AS1273 IPv4 Route Propagation



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November 5, 2024
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AS1273 IPv4 Route Propagation

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AS3257

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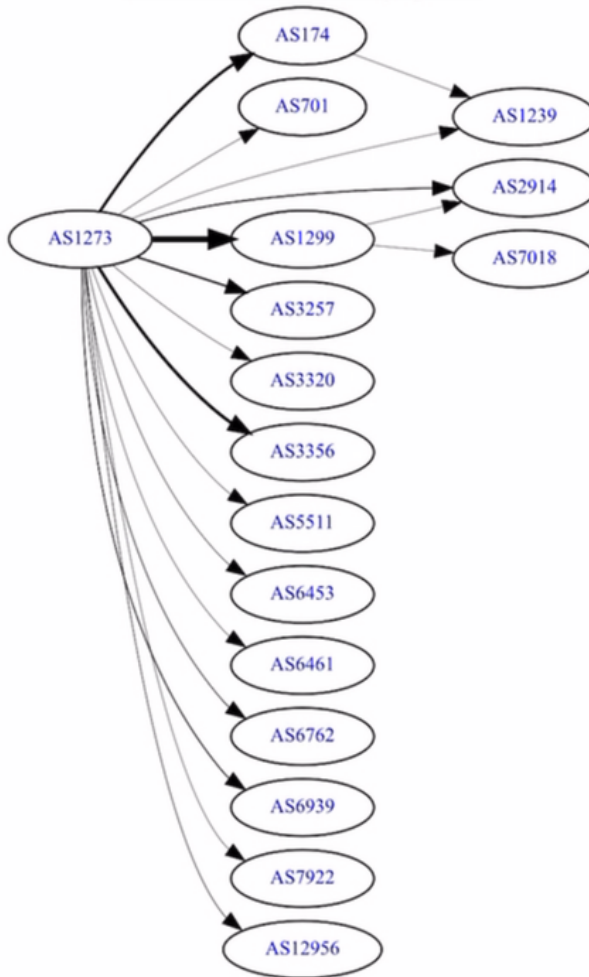
AS1273 Vodafone Group PLC

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AS1273 IPv4 Route Propagation





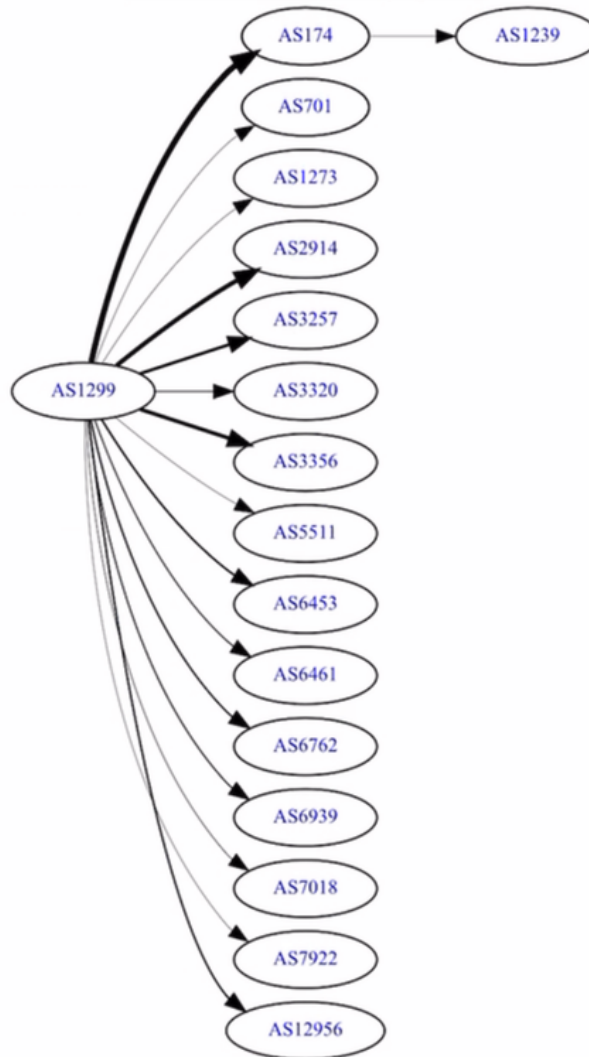
AS1299 Arelion Sweden AB

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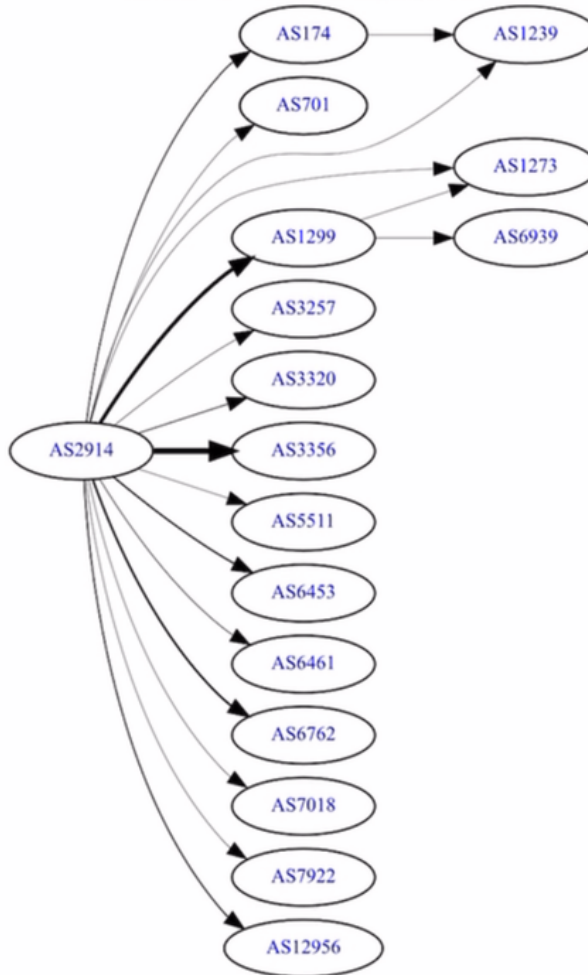
AS2914 NTT America, Inc.

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AS2914 IPv4 Route Propagation





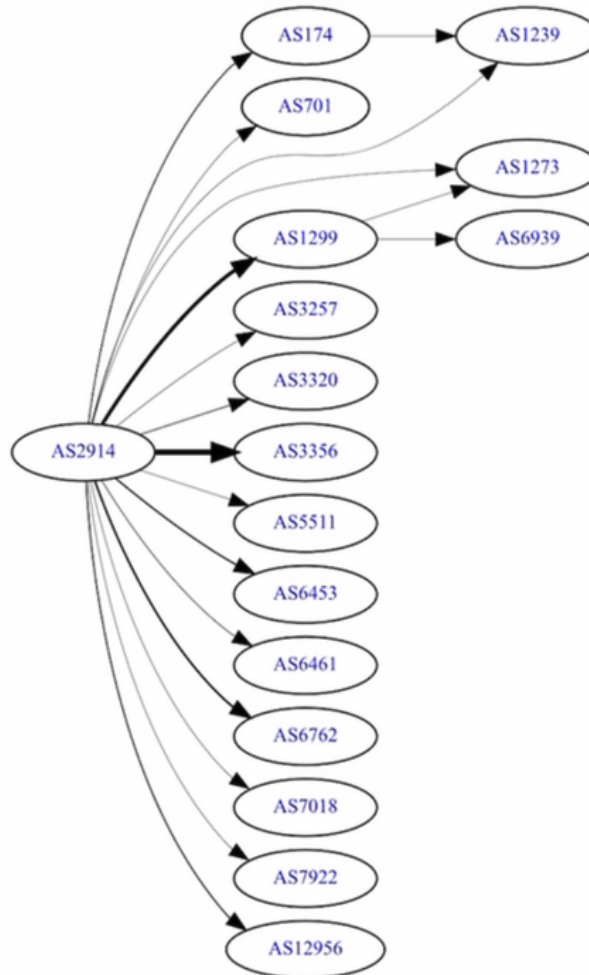
AS2914 NTT America, Inc.

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AS2914 IPv4 Route Propagation





AS3257 GTT Communications Inc.

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Company Website:

<http://www.gtt.net>

Company Looking Glass:

<http://www.as3257.net/lgl/>

Company Route Server:

<telnet://route-server.as3257.net>

Country of Origin:

[United States](#)

Internet Exchanges: 9



Prefixes Originated (all): 1,055

Prefixes Originated (v4): 980

Prefixes Originated (v6): 75

Prefixes Announced (all): 172,578

Prefixes Announced (v4): 151,262

Prefixes Announced (v6): 21,316

RPKI Originated Valid (all): 337

RPKI Originated Valid (v4): 319

RPKI Originated Valid (v6): 18

RPKI Originated Invalid (all): 6

RPKI Originated Invalid (v4): 4

RPKI Originated Invalid (v6): 2

BGP Peers Observed (all): 1,870

BGP Peers Observed (v4): 1,845

BGP Peers Observed (v6): 912

IPs Originated (v4): 8,527,872

AS Paths Observed (v4): 155,103

AS Paths Observed (v6): 68,933

Average AS Path Length (all): 4.079

Average AS Path Length (v4): 4.052

Average AS Path Length (v6): 4.142

AS3257 IPv4 Peers



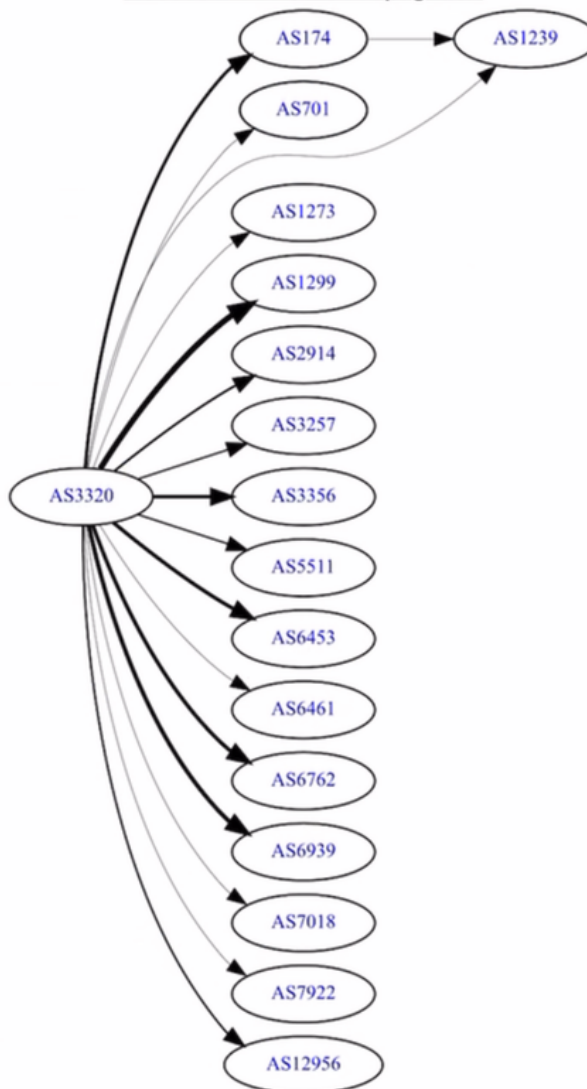
AS3320 Deutsche Telekom AG

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AS3320 IPv4 Route Propagation





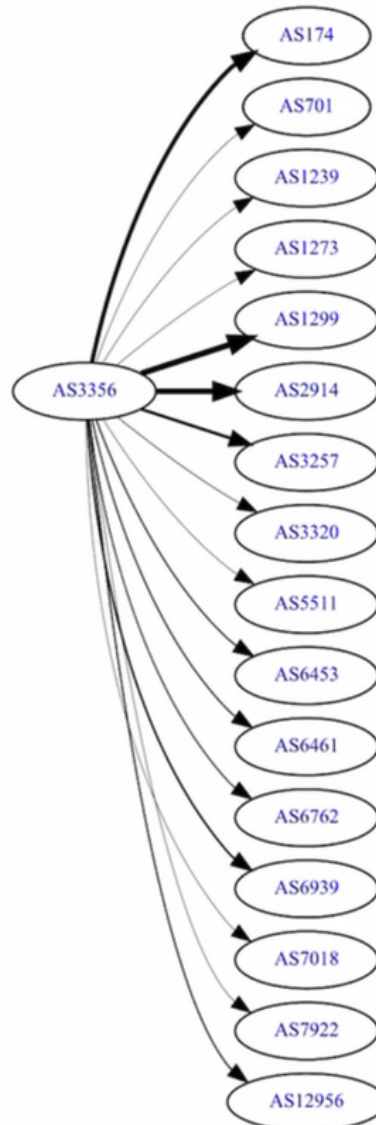
AS3356 Level 3 Parent, LLC

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AS3356 IPv4 Route Propagation





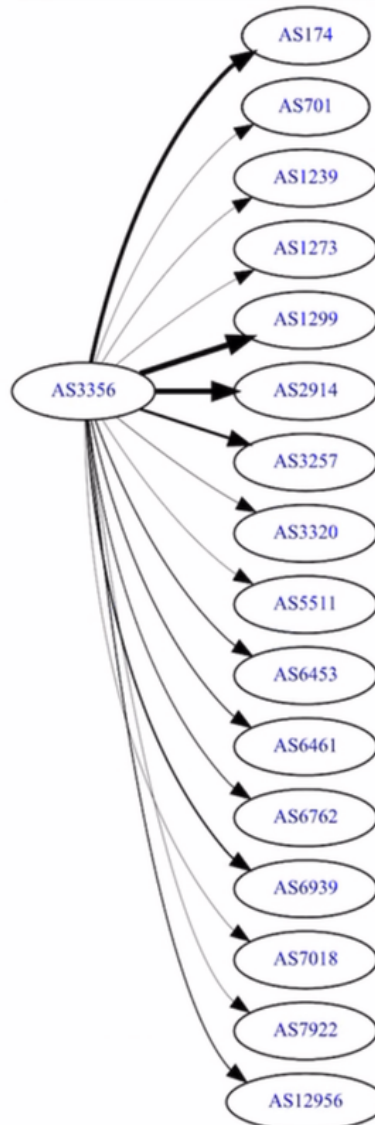
AS3356 Level 3 Parent, LLC

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AS3356 IPv4 Route Propagation

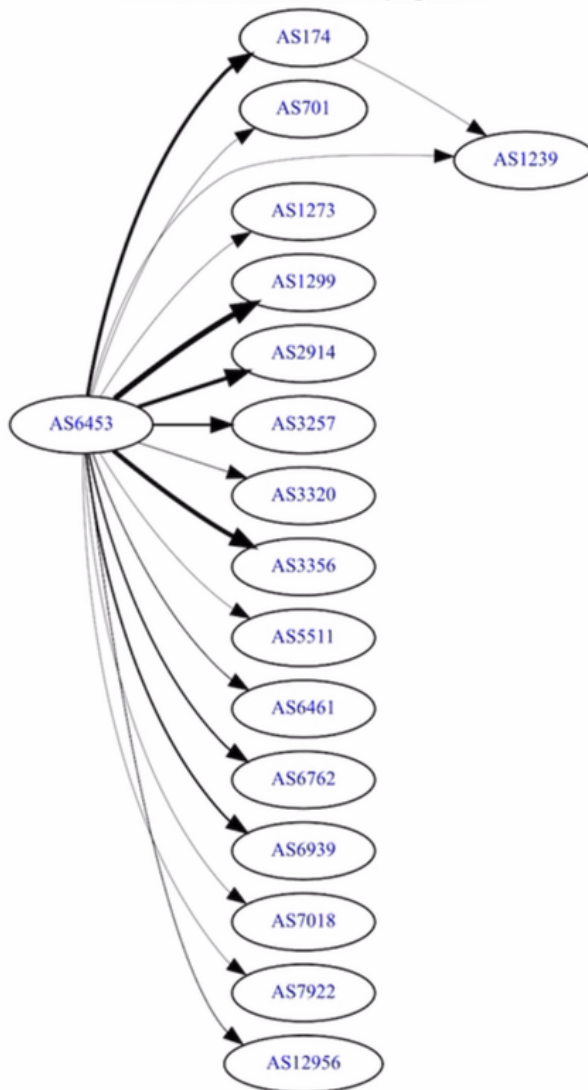


**S6453 TATA COMMUNICATIONS
(AMERICA) INC**

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AS6453 IPv4 Route Propagation

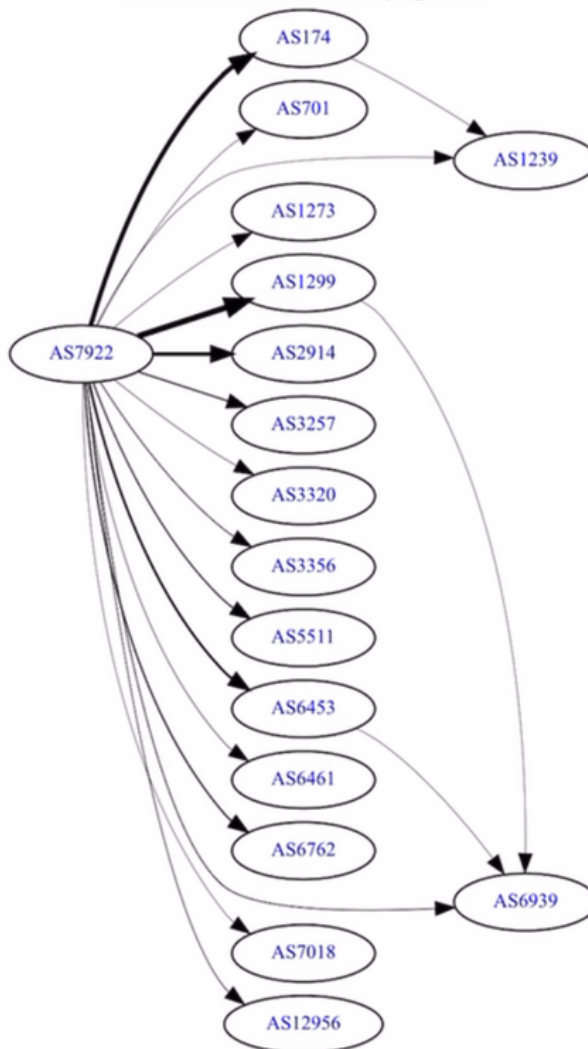


**S7922 Comcast Cable Communications,
LC**

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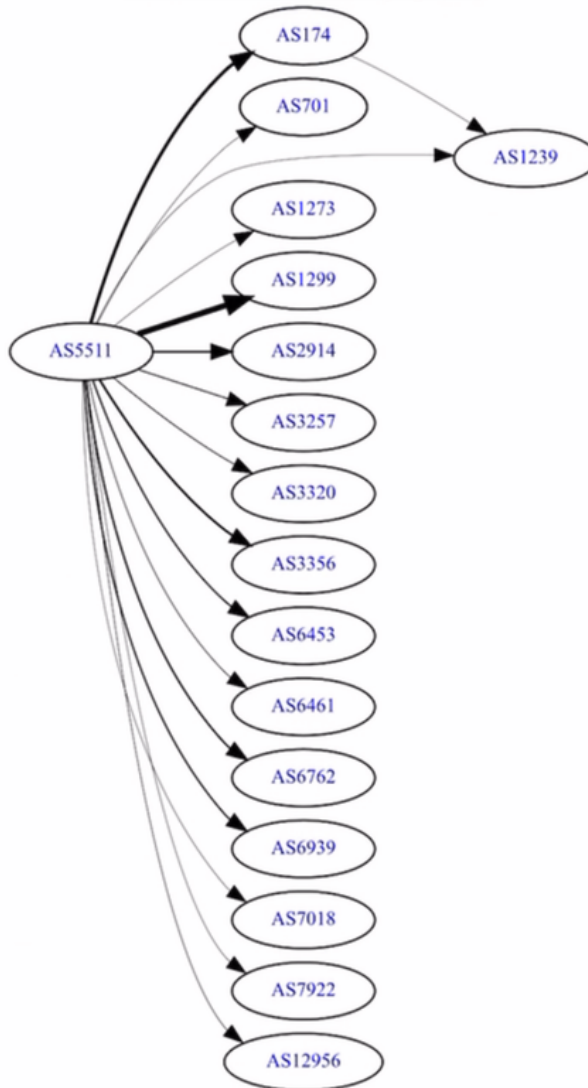
AS7922 IPv4 Route Propagation



AS5511 Orange S.A.

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AS5511 IPv4 Route Propagation



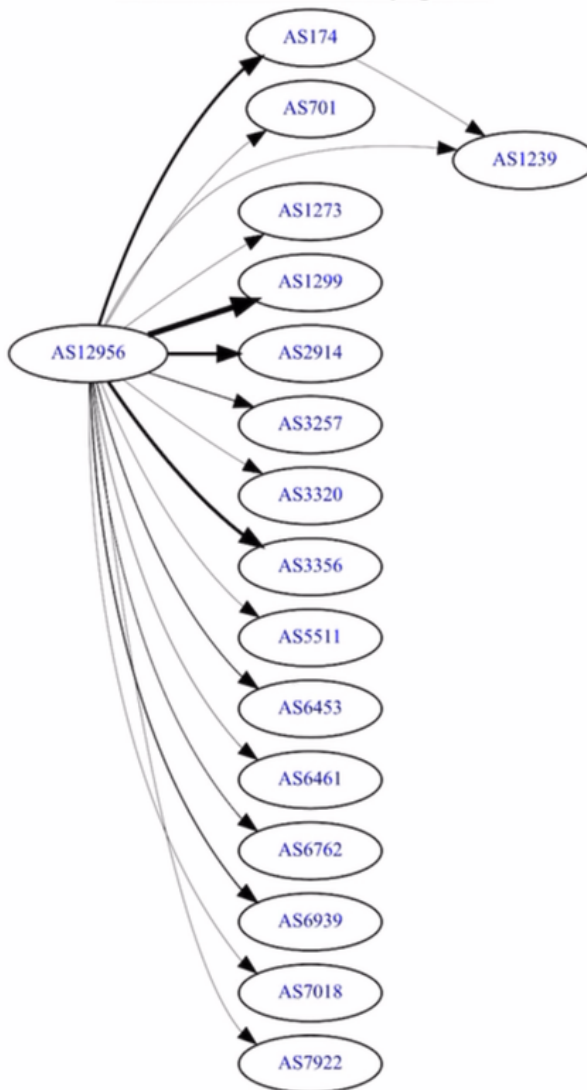


S12956 TELEFONICA GLOBAL OLUTIONS SL

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AS12956 IPv4 Route Propagation





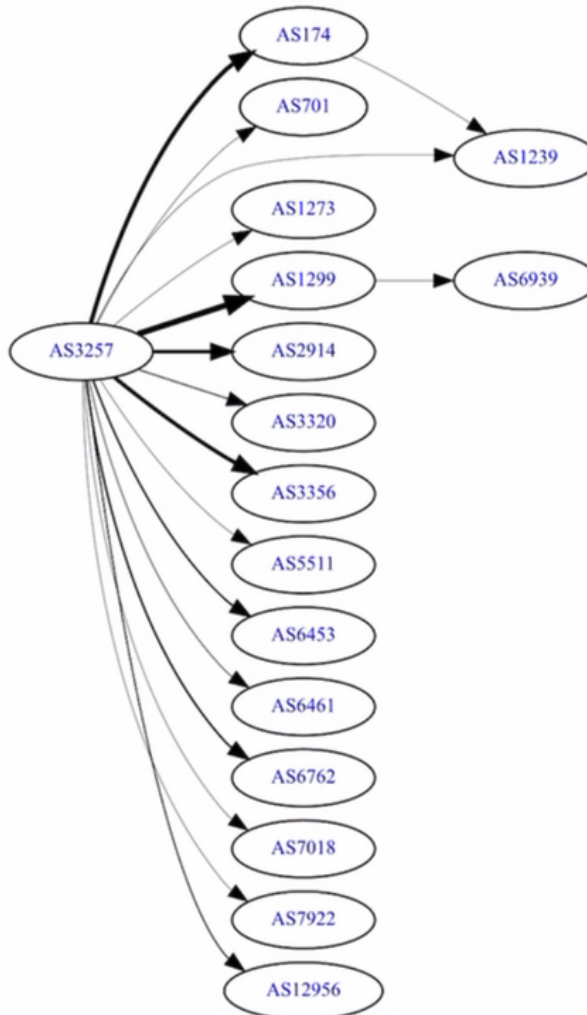
AS3257 GTT Communications Inc.

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AS3257 IPv4 Route Propagation





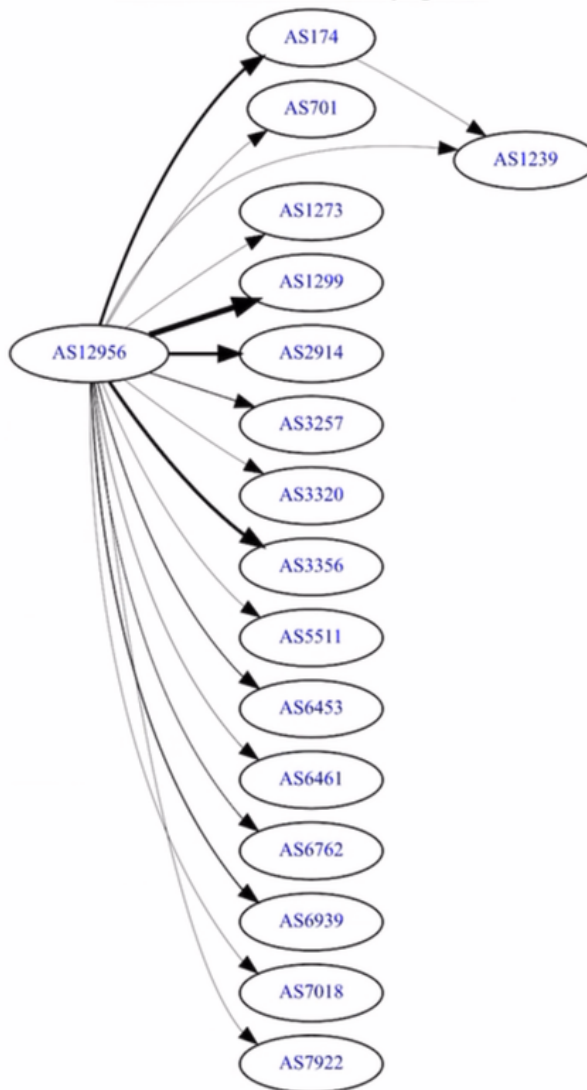
S12956 TELEFONICA GLOBAL OLUTIONS SL

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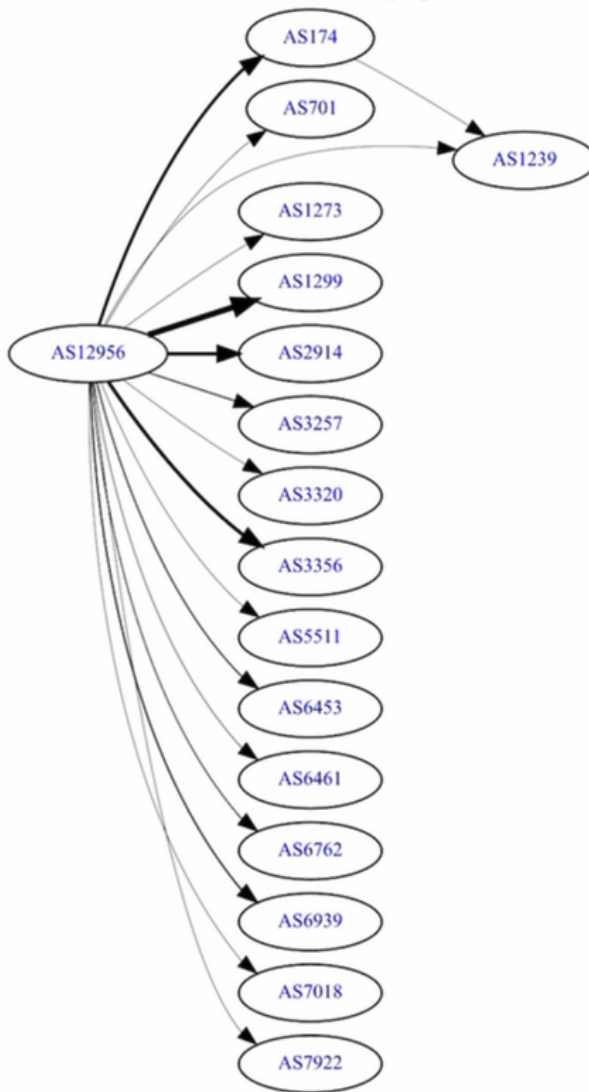


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AS174 Cogent Communications

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AS174 announces bogons.

Company Website: <http://www.cogentco.com/>
Company Looking Glass: <http://www.cogentco.com/en/network-glass>

Country of Origin: United States

Prefixes Originated (all): 7,283
Prefixes Originated (v4): 6,493
Prefixes Originated (v6): 790

Prefixes Announced (all): 229,554
Prefixes Announced (v4): 193,492
Prefixes Announced (v6): 36,062

RPKI Originated Valid (all): 510
RPKI Originated Valid (v4): 394
RPKI Originated Valid (v6): 116

RPKI Originated Invalid (all): 6
RPKI Originated Invalid (v4): 1
RPKI Originated Invalid (v6): 5

BGP Peers Observed (all): 6,854
BGP Peers Observed (v4): 6,777
BGP Peers Observed (v6): 2,738

IPs Originated (v4): 35,867,904
AS Paths Observed (v4): 137,982
AS Paths Observed (v6): 44,410

Average AS Path Length (all): 3.798
Average AS Path Length (v4): 3.811
Average AS Path Length (v6): 3.759



AS174 Cogent Communications

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AS174 IPv6 Route Propagation





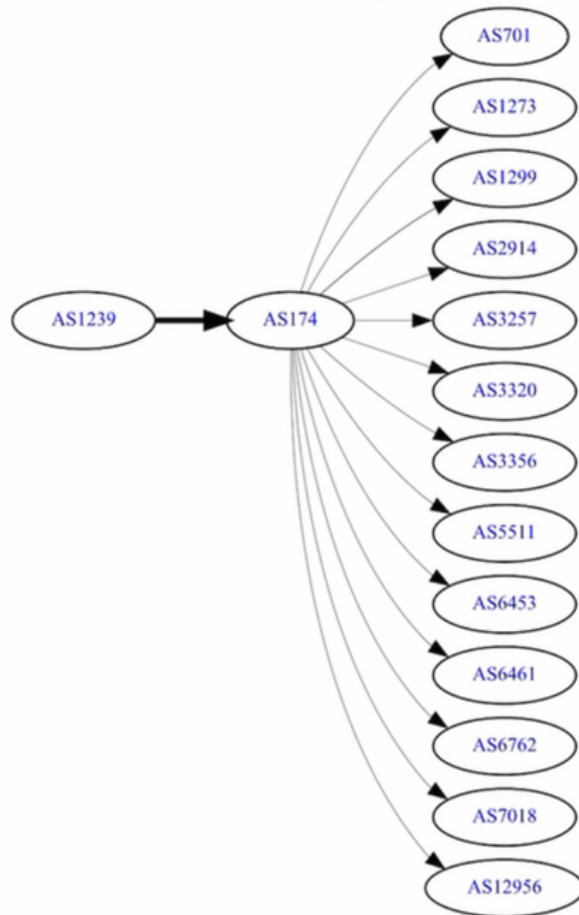
AS1239 Sprint

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AS1239 IPv6 Route Propagation





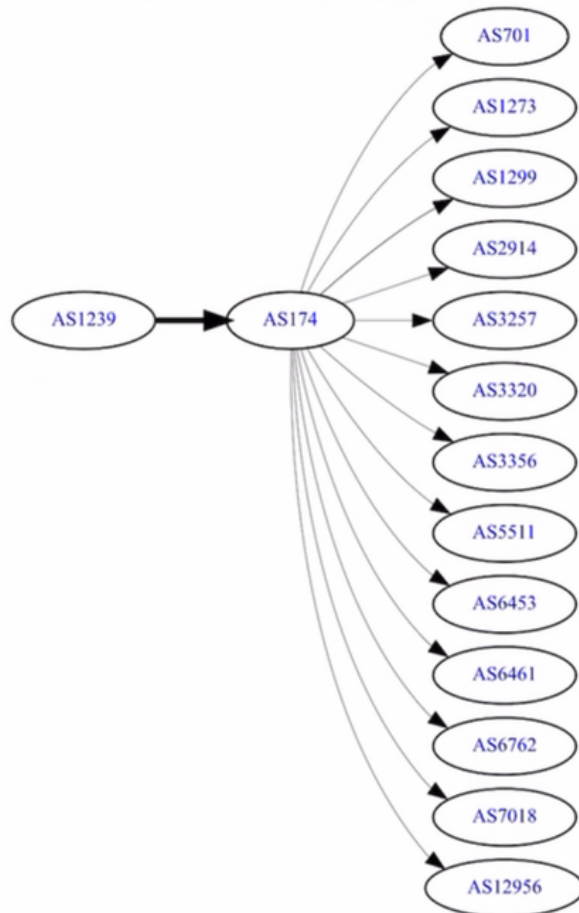
AS1239 Sprint

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AS1239 IPv6 Route Propagation





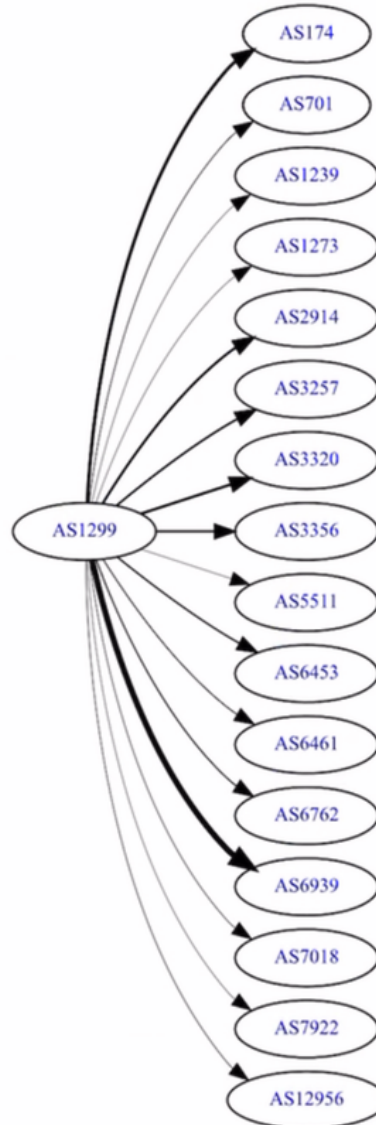
AS1299 Arelion Sweden AB

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AS1299 IPv6 Route Propagation



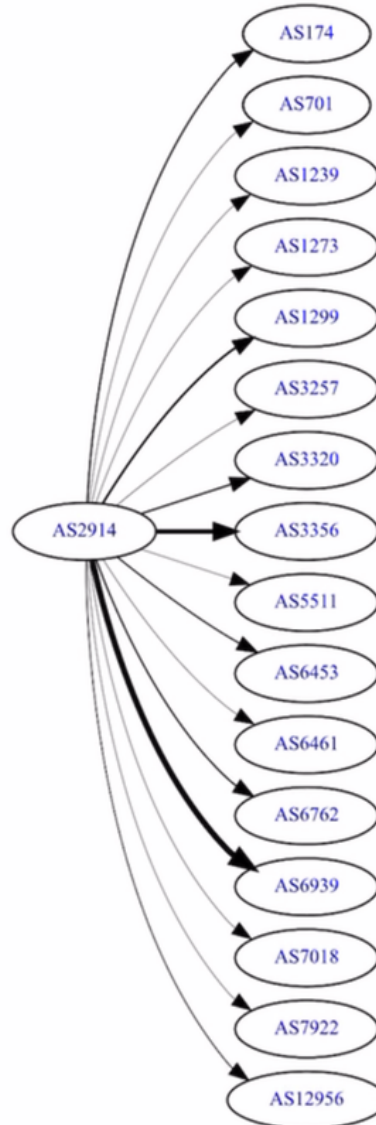


AS2914 NTT America, Inc.

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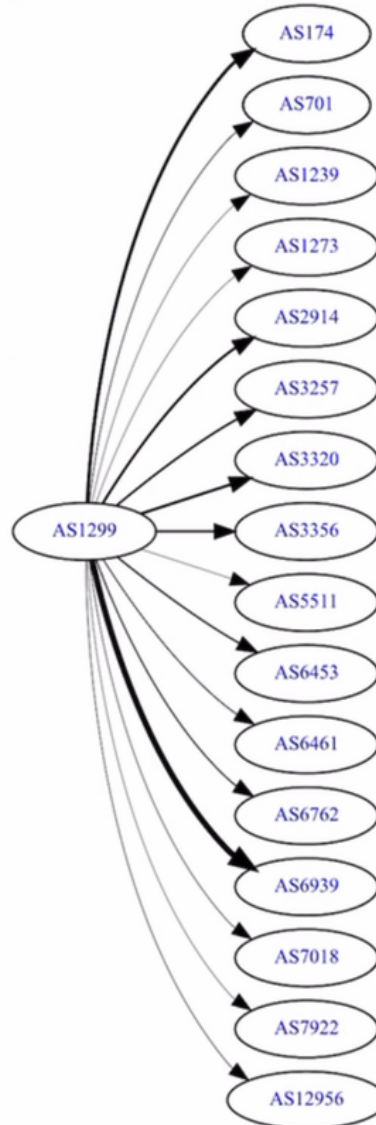
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Company Website:
Company Looking Glass:

<http://www.sprint.net>
<https://www.sprint.net/lg/>

Country of Origin:

United States

Internet Exchanges: 8

Prefixes Originated (all): 4,951
Prefixes Originated (v4): 4,718
Prefixes Originated (v6): 233

Prefixes Announced (all): 5,841
Prefixes Announced (v4): 5,560
Prefixes Announced (v6): 281

RPKI Originated Valid (all): 221
RPKI Originated Valid (v4): 195
RPKI Originated Valid (v6): 26

RPKI Originated Invalid (all): 391
RPKI Originated Invalid (v4): 370
RPKI Originated Invalid (v6): 21

BGP Peers Observed (all): 4,783
BGP Peers Observed (v4): 4,567
BGP Peers Observed (v6): 1,533

IPs Originated (v4): 38,968,064
AS Paths Observed (v4): 64,419
AS Paths Observed (v6): 12,320

Average AS Path Length (all): 3.832
Average AS Path Length (v4): 3.876
Average AS Path Length (v6): 3.604

customer portal | customer login | support | [v6](#)

cogent

products & services | solutions | network

Home | Sprint Portal

Sprint.net

This page will guide you to links for certain materials that appeared on

Customer Portal - eCogent (Note that eCogent replaces the Sprint Con

Network Performance and SLA

Maintenance Windows (Please also see the Cogent Customer User Gu

Cogent will perform regularly scheduled maintenance on the Cogent standard maintenance window from 00:00 AM to 06:00 AM local ti to which Customer's circuit is connected. Cogent will normally not scheduled maintenance at least two (2) business days in advance, i cases, maintenance performed will not take the full configuration i Cogent will provide more detail regarding the anticipated duration the email notification. In the event of unscheduled or emergency n will attempt to notify the customer via email and/or via telephone i the immediate need for maintenance. Unscheduled or emergency generally defined as maintenance necessary to avoid imminent ne

Upcoming Maintenance Windows can be found on our [Network St](#)

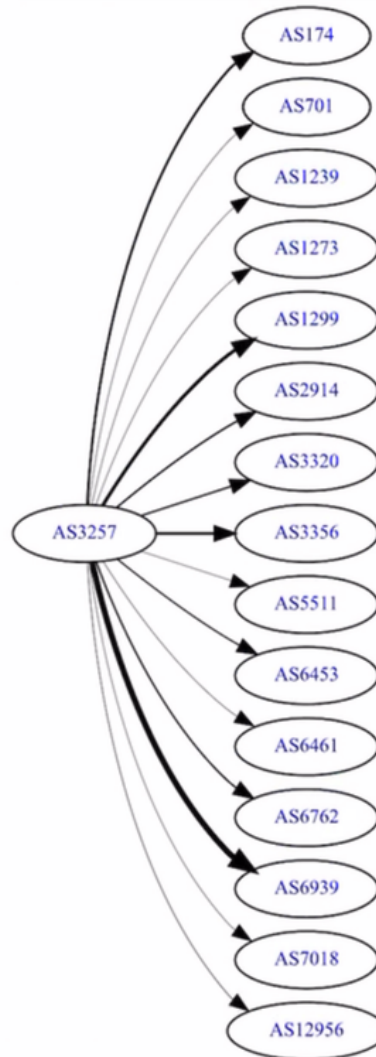
Downloadable Network Maps

AS1239 IPv4 Peers

AS3257 GTT Communications Inc.

- Quick Links**
- GP Toolkit Home
 - GP Prefix Report
 - GP Peer Report
 - uper Traceroute
 - uper Looking Glass
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 - 'v6 Certification
 - 'v6 Progress
 - oing Native
 - redits
 - ontact Us
- AS Info** **Graph v4** **Graph v6** **Prefixes v4** **Prefixes v6** **Peers v4** **Peers v6**
Whois **RDAP** **IRR** **IX** **Traceroute**

AS3257 IPv6 Route Propagation





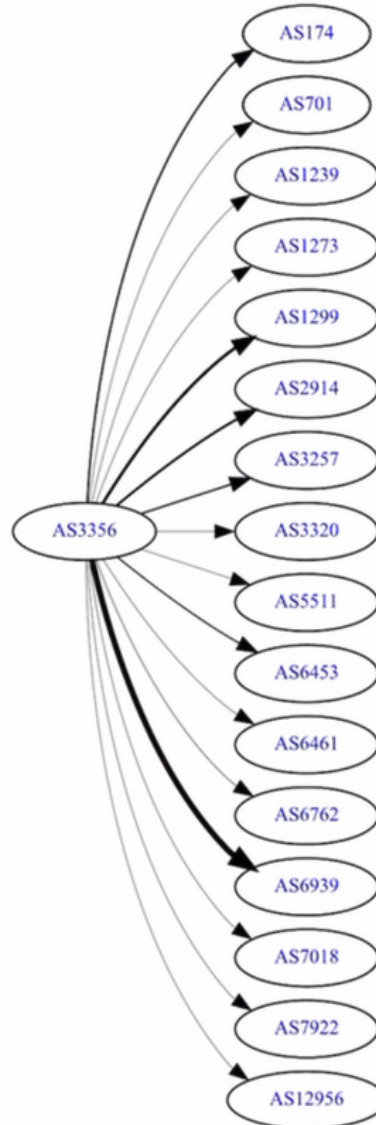
AS3356 Level 3 Parent, LLC

Quick Links

AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
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- GP Toolkit Home
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AS3356 IPv6 Route Propagation



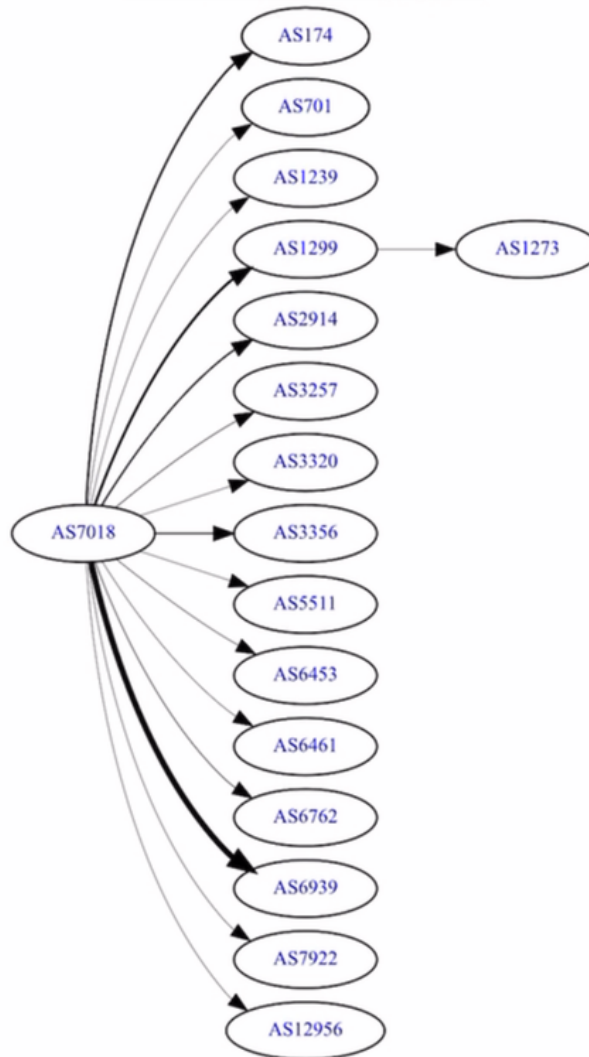
AS7018 AT&T Services, Inc.

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Whois RDAP IRR Traceroute

AS7018 IPv6 Route Propagation





AS7018 AT&T Services, Inc.

- Quick Links
- AS Info

Graph v4

Graph v6

Prefixes v4

Prefixes v6

Peers v4

Peers v6

Whois

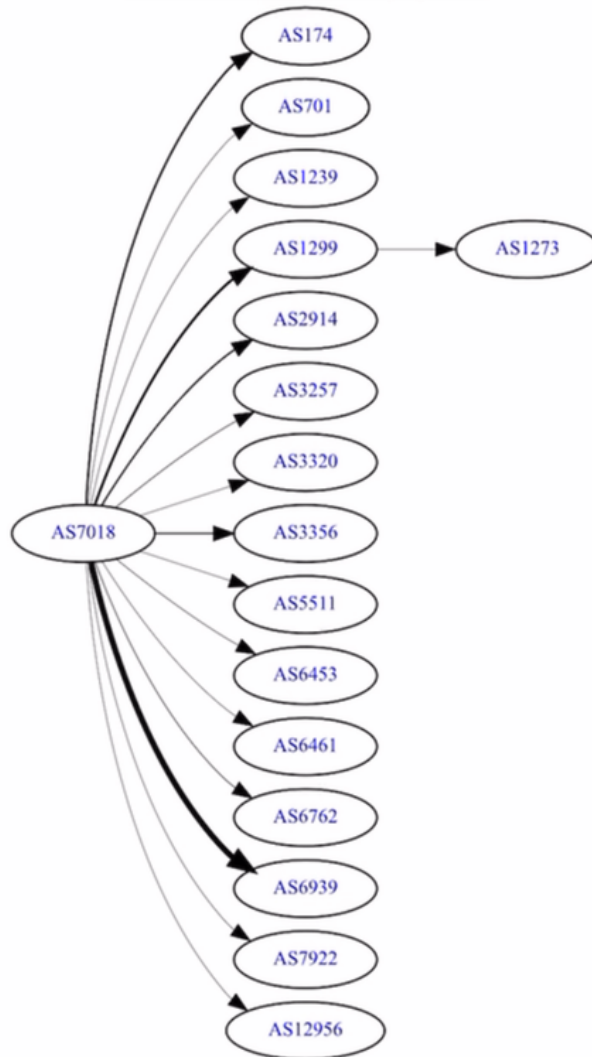
RDAP

IRR

Traceroute

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- Super Looking Glass
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AS7018 IPv6 Route Propagation





AS6939 Hurricane Electric LLC

- Quick Links
- AS Info

Graph v4

Graph v6

Prefixes v4

Prefixes v6

Peers v4

Peers v6

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RDAP

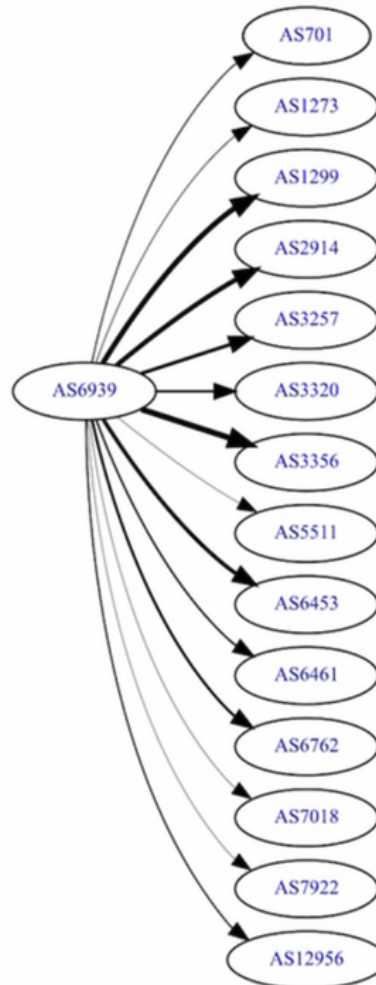
IRR

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AS6939 IPv6 Route Propagation





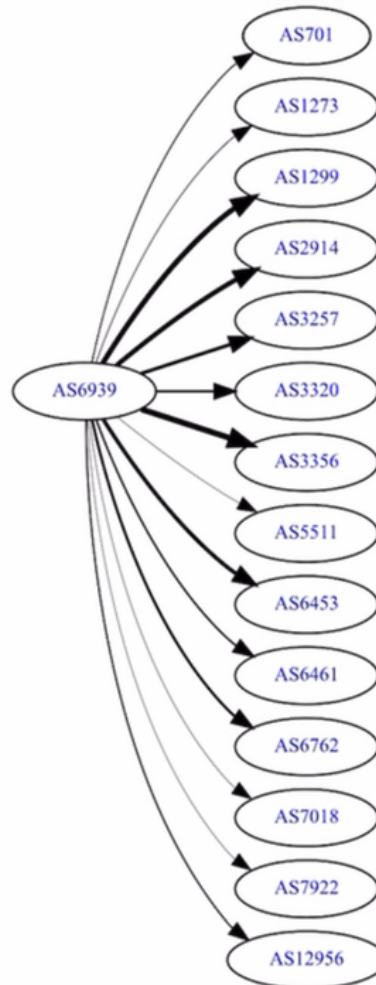
AS6939 Hurricane Electric LLC

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AS6939 IPv6 Route Propagation





HURRICANE ELECTRIC INTERNET SERVICES

AS6939 Hurricane Electric LLC

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Company Website:

<http://he.net>

Company Looking Glass:

<http://lg.he.net>

Company Route Server:

<telnet://route-server.he.net>

Country of Origin:

[United States](#)

Internet Exchanges: 319

Prefixes Originated (all): 309

Prefixes Originated (v4): 286

Prefixes Originated (v6): 23

Prefixes Announced (all): 210,567

Prefixes Announced (v4): 150,994

Prefixes Announced (v6): 59,573

RPKI Originated Valid (all): 246

RPKI Originated Valid (v4): 235

RPKI Originated Valid (v6): 11

RPKI Originated Invalid (all): 0

RPKI Originated Invalid (v4): 0

RPKI Originated Invalid (v6): 0

BGP Peers Observed (all): 10,554

BGP Peers Observed (v4): 9,245

BGP Peers Observed (v6): 6,919

IPs Originated (v4): 534,784

AS Paths Observed (v4): 133,048

AS Paths Observed (v6): 52,260

Average AS Path Length (all): 3.580

Average AS Path Length (v4): 3.624

Average AS Path Length (v6): 3.468



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Information

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Hurricane Electric

Hurricane Electric IP Transit

1-800-4-A-ROOT

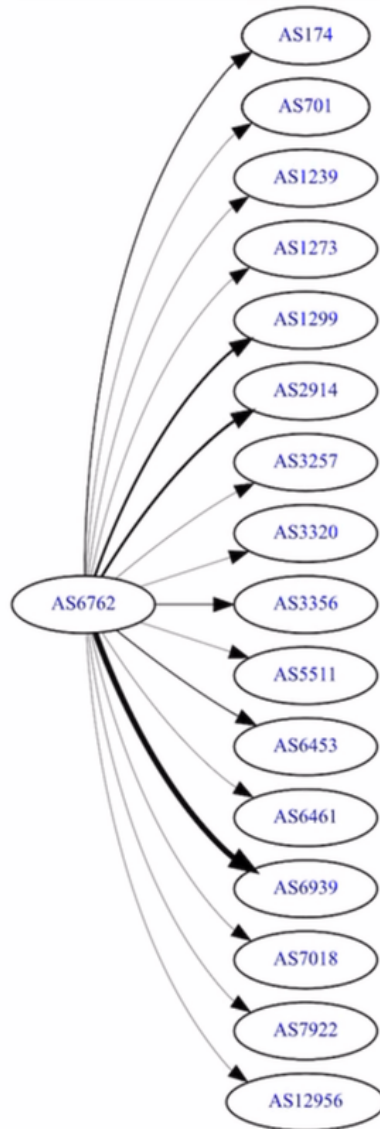
AS6939 IPv4 Peers

S6762 TELECOM ITALIA SPARKLE S.p.A.

Quick Links AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

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AS6762 IPv6 Route Propagation

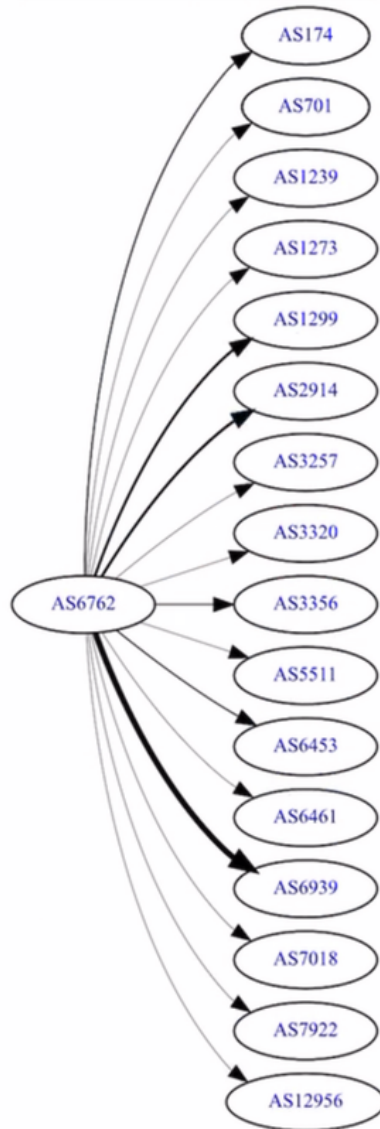


S6762 TELECOM ITALIA SPARKLE S.p.A.

Quick Links AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
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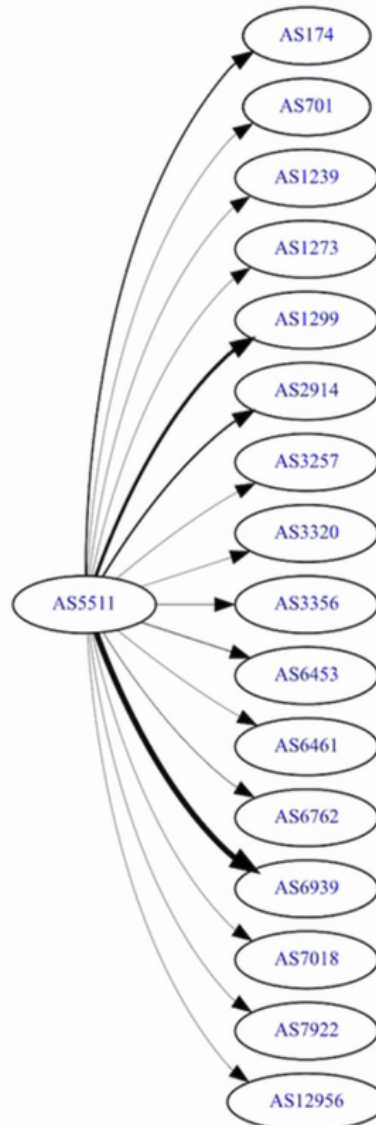
AS6762 IPv6 Route Propagation



AS5511 Orange S.A.

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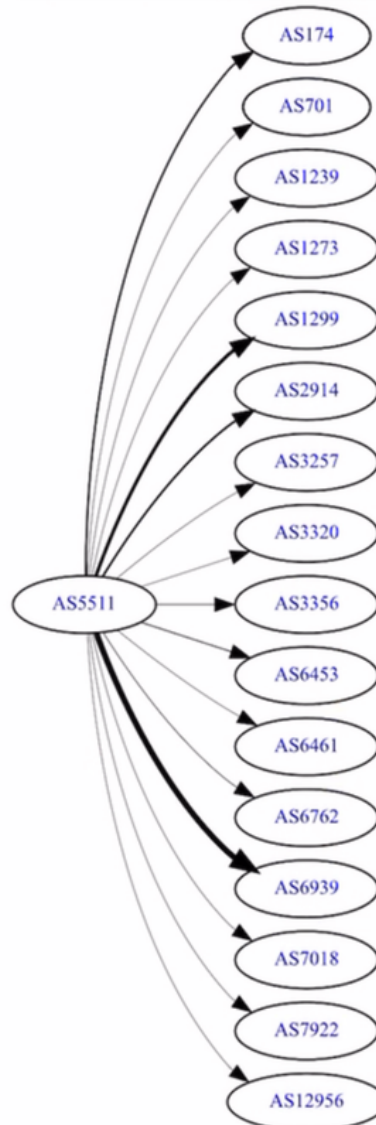
AS5511 IPv6 Route Propagation



AS5511 Orange S.A.

- Quick Links**
- GP Toolkit Home
 - GP Prefix Report
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AS5511 IPv6 Route Propagation





AS2914 NTT America, Inc.

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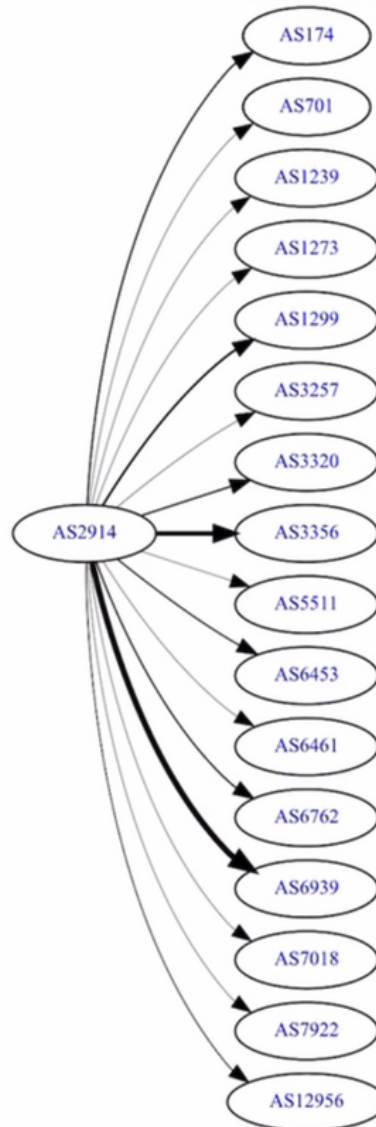
IRR

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AS2914 IPv6 Route Propagation





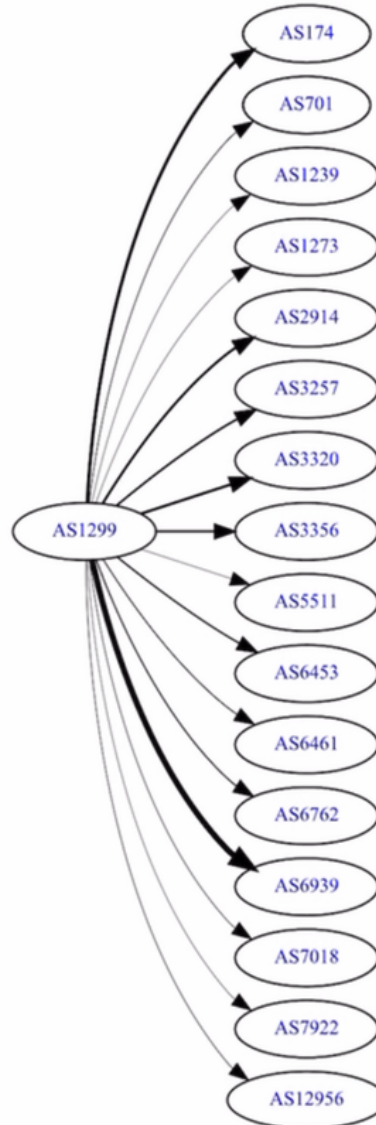
AS1299 Arelion Sweden AB

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AS1299 IPv6 Route Propagation





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AS3356 Level 3 Parent, LLC

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Company Website:
Company Looking Glass:

<http://www.lumen.com>
<https://lookingglass.centurylink.com>

Country of Origin:

United States

Internet Exchanges: 8

Prefixes Originated (all): 1,267
Prefixes Originated (v4): 1,180
Prefixes Originated (v6): 87

Prefixes Announced (all): 274,622
Prefixes Announced (v4): 241,922
Prefixes Announced (v6): 32,700

RPKI Originated Valid (all): 113
RPKI Originated Valid (v4): 107
RPKI Originated Valid (v6): 6

RPKI Originated Invalid (all): 13
RPKI Originated Invalid (v4): 11
RPKI Originated Invalid (v6): 2

BGP Peers Observed (all): 6,748
BGP Peers Observed (v4): 6,661
BGP Peers Observed (v6): 2,393

IPs Originated (v4): 29,844,736
AS Paths Observed (v4): 200,508
AS Paths Observed (v6): 76,878

Average AS Path Length (all): 4.012
Average AS Path Length (v4): 4.011
Average AS Path Length (v6): 4.016

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AS3356 IPv4 Peers



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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

Prefix		Description		Visibility
2.22.36.0/22	✓	Akamai Technologies		100% 645/645
2.22.40.0/22	✓	Akamai Technologies		100% 645/645
2.255.192.0/18	✓	Arelion Sweden AB		100% 645/645
2.255.248.0/21	✓	Arelion Sweden AB		100% 645/645
23.40.124.0/22	✓	Akamai International, BV		100% 645/645
43.228.184.0/22		Sand Dune Mail Ltd		100% 645/645
45.15.18.0/24	✓	Netbouncer AB		100% 645/645
45.86.95.0/24	✓	Private Customer		100% 645/645
45.87.30.0/23	✓	Telia organisation		100% 645/645
45.134.220.0/23	✓	Telia organisation		100% 645/645
45.145.38.0/24	✓	UNIVERSAL SATELLITE COMMUNICATION DMCC		100% 645/645
45.148.4.0/24	✓	PVDataNet AB		100% 645/645
45.148.97.0/24	✓	Telia organisation		100% 645/645
45.148.98.0/23	✓	Telia organisation		100% 645/645
45.149.105.0/24	✓	Telia organisation		100% 645/645
45.149.106.0/23	✓	Telia organisation		100% 645/645
62.115.0.0/16	✓	Arelion Sweden AB		100% 645/645
62.115.128.0/22	✓	Arelion Sweden AB		100% 645/645
80.91.240.0/20	✓	Arelion Sweden AB		100% 645/645
80.91.248.0/21	✓	Arelion Sweden AB		100% 645/645
80.239.128.0/19	✓	Arelion Sweden AB		100% 645/645
80.239.160.0/19	✓	Arelion Sweden AB		100% 645/645
80.239.192.0/19	✓	Arelion Sweden AB		100% 645/645
80.239.224.0/19	✓	Arelion Sweden AB		100% 645/645
83.168.124.0/24	✓	Private Customer		100% 645/645
84.245.48.0/21	✓	Telia organisation		100% 645/645
84.245.56.0/24	✓	Telia organisation		100% 645/645
84.245.58.0/23	✓	Telia organisation		100% 645/645
84.245.60.0/22	✓	Telia organisation		100% 645/645



HURRICANE ELECTRIC
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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

Rank	Description	IPv6	Peer
1	Level 3 Parent, LLC	X	AS3356
2	Cogent Communications	X	AS174
3	Hurricane Electric LLC	X	AS6939
4	GTT Communications Inc.	X	AS3257
5	TATA COMMUNICATIONS (AMERICA) INC	X	AS6453
6	TELECOM ITALIA SPARKLE S.p.A.	X	AS6762
7	NTT America, Inc.	X	AS2914
8	BHARTI Airtel Ltd.	X	AS9498
9	Zayo Bandwidth	X	AS6461
10	Angola Cables	X	AS37468
11	GlobeNet Cabos Submarinos Colombia, S.A.S.	X	AS52320
12	PJSC Rostelecom	X	AS12389
13	PCCW Global, Inc.	X	AS3491
14	EDGEUNO S.A.S	X	AS7195
15	TELEFONICA GLOBAL SOLUTIONS SL	X	AS12956
16	Vodafone Group PLC	X	AS1273
17	Orange S.A.	X	AS5511
18	Joint Stock Company TransTeleCom	X	AS20485
19	Verizon Business	X	AS701
20	COLT Technology Services Group Limited	X	AS8220
21	Comcast Cable Communications, LLC	X	AS7922
22	PJSC Vimpelcom	X	AS3216
23	Singapore Telecommunications Ltd	X	AS7473
24	Telstra Global	X	AS4637
25	China Mobile International Limited	X	AS58453
26	PJSC MegaFon	X	AS31133
27	Crown Castle Fiber LLC	X	AS46887
28	RETN Limited	X	AS9002



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AS1299 Arelion Sweden AB

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AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6
Whois RDAP IRR IX Traceroute

Prefix		Description	Visibility
2001:2000:3000::/40		Telia Company AB	100% 621/621
2001:2030::/28		Arelion Sweden AB	100% 619/621
2001:2030:c004::/47		Arelion Sweden AB	62% 387/621
2407:1600::/32		Arelion Sweden AB	100% 620/621
2607:41c0::/32		Arelion	100% 621/621
2607:41c0:2::/48			37% 228/621
2a00:d0c0:1299::/48		uvensys GmbH	99% 617/621
2a0e:1c80:a::/48		Netbouncer AB - Zurich	100% 621/621
2a0e:1c80:e::/48		Netbouncer AB - Madrid	100% 621/621
2a0e:1c80:11::/48		Netbouncer AB - Paris	100% 621/621
2a0e:1c80:12::/48		Netbouncer AB - Milano	100% 621/621
2a0e:1c80:14::/48		Netbouncer AB - New York	100% 621/621
2a0e:1c80:15::/48		Netbouncer AB - Berlin	100% 621/621
2a14:3b00:1::/48			99% 616/621

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November 5, 2024

10:08 PM

Customer

[83.168.124.0/24](#)

Telia organisation



100% 645/645

[84.245.48.0/21](#)

Telia organisation



100% 645/645

[84.245.56.0/24](#)

Telia organisation



100% 645/645

[84.245.58.0/23](#)

Telia organisation



100% 645/645

[84.245.60.0/22](#)

C&S Breitband GmbH



100% 645/645

[84.254.68.0/22](#)

Telia organisation



100% 645/645

[89.31.219.0/24](#)

Akamai Technologies



100% 645/645

[95.101.133.0/24](#)

Sand Dune Mail Ltd



100% 645/645

[103.47.204.0/22](#)

Akamai Technologies, Inc.



100% 645/645

[104.103.64.0/22](#)

Private Customer



100% 645/645

[109.176.210.0/24](#)

Private Customer



100% 645/645

[109.176.241.0/24](#)

UPM-Kymmene Oyj



100% 645/645

[139.123.228.0/24](#)

Boehringer Ingelheim Pharmaceuticals, Inc.



15% 95/645

[141.195.162.0/24](#)

Boehringer Ingelheim Pharmaceuticals, Inc.



100% 645/645

[148.188.208.0/20](#)

100% 645/645

[153.112.205.0/24](#)

Vodafone Hungary Ltd.



2% 14/645

[176.63.8.0/24](#)

uvensys GmbH



100% 645/645

[185.26.158.0/24](#)

Telia organisation



100% 645/645

[185.154.150.0/23](#)

Arab Satellite Communications Organization



100% 645/645

[185.228.227.0/24](#)

Telia organisation



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[185.231.40.0/24](#)

Telia organisation



100% 645/645

[185.244.221.0/24](#)

Telia organisation



100% 645/645

[185.244.222.0/23](#)

PVDaNet AB



100% 645/645

[192.71.172.0/24](#)

Stora Enso Oyj



100% 645/645

[192.89.218.0/24](#)

PVDaNet AB



100% 645/645

[192.121.102.0/24](#)

UPM-Kymmene Oyj



100% 645/645

[193.24.66.0/24](#)

Telia Company AB



100% 644/645

[193.45.0.0/22](#)

Telia Company AB



100% 644/645

[193.45.6.0/24](#)

Telia Company AB



100% 644/645

[193.45.10.0/23](#)

Telia Company AB



100% 644/645

[193.45.11.0/24](#)

Telia Company AB



100% 644/645

[193.45.14.0/23](#)

Telia organisation



100% 645/645

[193.84.135.0/24](#)

PVDaNet AB



100% 645/645

[193.104.211.0/24](#)

PVDaNet AB



100% 645/645

[193.104.222.0/24](#)

PVDaNet AB



100% 645/645

[193.180.119.0/24](#)

Nordic Internet Service AB



100% 645/645

[193.181.46.0/24](#)

Nordic Internet Service AB



100% 645/645

[193.181.46.0/24](#)

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185.228.227.0/24		Telia organisation		100% 645/645
185.231.40.0/24		Arab Satellite Communications Organization		100% 645/645
185.244.221.0/24		Telia organisation		100% 645/645
185.244.222.0/23		Telia organisation		100% 645/645
192.71.172.0/24		PVDataNet AB		100% 645/645
192.89.218.0/24		Stora Enso Oyj		100% 645/645
192.121.102.0/24		PVDataNet AB		100% 645/645
193.24.66.0/24		UPM-Kymmene Oyj		100% 645/645
193.45.0.0/22		Telia Company AB		100% 644/645
193.45.6.0/24		Telia Company AB		100% 644/645
193.45.10.0/23		Telia Company AB		100% 644/645
193.45.11.0/24		Telia Company AB		100% 644/645
193.45.14.0/23		Telia Company AB		100% 644/645
193.84.135.0/24		Telia organisation		100% 645/645
193.104.211.0/24		PVDataNet AB		100% 645/645
193.104.222.0/24		PVDataNet AB		100% 645/645
193.180.119.0/24		PVDataNet AB		100% 645/645
193.181.41.0/24		Nordic Internet Service AB		100% 645/645
193.181.46.0/24		Nordic Internet Service AB		100% 645/645
193.183.217.0/24		PVDataNet AB		100% 645/645
193.234.249.0/24		SSAB AB		100% 645/645
193.235.106.0/24		Volvo Information Technology AB		100% 645/645
194.59.13.0/24		Juergen Marena		1% 7/645
194.76.208.0/24		BDO AG Wirtschaftspruefungsgesellschaft		100% 645/645
194.101.81.0/24		NHS England (X26)		100% 645/645
195.12.224.0/19		Arelion Sweden AB		100% 645/645
195.12.248.0/23		Arelion Sweden AB		68% 440/645
195.191.212.0/24		Automile AB		100% 645/645
199.198.157.0/24		LACTALIS CANADA INC.		100% 645/645
199.198.158.0/24		LACTALIS CANADA INC.		100% 645/645
202.163.0.0/19		Arelion Sweden AB		100% 645/645
209.95.128.0/19		Arelion		100% 645/645
209.170.64.0/18		Arelion		100% 645/645
212.132.163.0/24		Region1/2 Broadband		0% 2/645
213.155.128.0/19		Arelion Sweden AB		100% 645/645
213.248.64.0/18		Arelion Sweden AB		100% 645/645
217.74.19.0/24		Legaco Networks B.V.		100% 645/645
217.212.224.0/19		Telia Company AB		100% 644/645

Showing 1-81 of 81

185.231.40.0/24November 5, 2024 Communications Organ
10:08 PM

100% 645/645

185.244.221.0/24

Telia organisation



100% 645/645

185.244.222.0/23

Telia organisation



100% 645/645

192.71.172.0/24

PVDataNet AB



100% 645/645

192.89.218.0/24

Stora Enso Oyj



100% 645/645

192.121.102.0/24

PVDataNet AB



100% 645/645

193.24.66.0/24

UPM-Kymmene Oyj



100% 645/645

193.45.0.0/22

Telia Company AB



100% 644/645

193.45.6.0/24

Telia Company AB



100% 644/645

193.45.10.0/23

Telia Company AB



100% 644/645

193.45.11.0/24

Telia Company AB



100% 644/645

193.45.14.0/23

Telia Company AB



100% 644/645

193.84.135.0/24

Telia organisation



100% 645/645

193.104.211.0/24

PVDataNet AB



100% 645/645

193.104.222.0/24

PVDataNet AB



100% 645/645

193.180.119.0/24

PVDataNet AB



100% 645/645

193.181.41.0/24

Nordic Internet Service AB



100% 645/645

193.181.46.0/24

Nordic Internet Service AB



100% 645/645

193.183.217.0/24

PVDataNet AB



100% 645/645

193.234.249.0/24

SSAB AB



100% 645/645

193.235.106.0/24

Volvo Information Technology AB



100% 645/645

194.59.13.0/24

Juergen Marena



1% 7/645

194.76.208.0/24

BDO AG Wirtschaftspruefungsgesellschaft



100% 645/645

194.101.81.0/24

NHS England (X26)



100% 645/645

195.12.224.0/19

Arelion Sweden AB



100% 645/645

195.12.248.0/23

Arelion Sweden AB



68% 440/645

195.191.212.0/24

Automile AB



100% 645/645

199.198.157.0/24

LACTALIS CANADA INC.

100% 645/645

199.198.158.0/24

LACTALIS CANADA INC.

100% 645/645

202.163.0.0/19

Arelion Sweden AB



100% 645/645

209.95.128.0/19

Arelion



100% 645/645

209.170.64.0/18

Arelion



100% 645/645

212.132.163.0/24

Region1/2 Broadband



0% 2/645

213.155.128.0/19

Arelion Sweden AB



100% 645/645

213.248.64.0/18

Arelion Sweden AB



100% 645/645

217.74.19.0/24

Legaco Networks B.V.



100% 645/645

217.212.224.0/19

Telia Company AB



100% 644/645

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Prefix		Description		Visibility
2.22.36.0/22		Akamai Technologies		100% 645/645
2.22.40.0/22		Akamai Technologies		100% 645/645
2.255.192.0/18		Arelion Sweden AB		100% 645/645
2.255.248.0/21		Arelion Sweden AB		100% 645/645
23.40.124.0/22		Akamai International, BV		100% 645/645
43.228.184.0/22		Sand Dune Mail Ltd		100% 645/645
45.15.18.0/24		Netbouncer AB		100% 645/645
45.86.95.0/24		Private Customer		100% 645/645
45.87.30.0/23		Telia organisation		100% 645/645
45.134.220.0/23		Telia organisation		100% 645/645
45.145.38.0/24		UNIVERSAL SATELLITE COMMUNICATION DMCC		100% 645/645
45.148.4.0/24		PVDataNet AB		100% 645/645
45.148.97.0/24		Telia organisation		100% 645/645
45.148.98.0/23		Telia organisation		100% 645/645
45.149.105.0/24		Telia organisation		100% 645/645
45.149.106.0/23		Telia organisation		100% 645/645
62.115.0.0/16		Arelion Sweden AB		100% 645/645
62.115.128.0/22		Arelion Sweden AB		100% 645/645
80.91.240.0/20		Arelion Sweden AB		100% 645/645
80.91.248.0/21		Arelion Sweden AB		100% 645/645
80.239.128.0/19		Arelion Sweden AB		100% 645/645
80.239.160.0/19		Arelion Sweden AB		100% 645/645
80.239.192.0/19		Arelion Sweden AB		100% 645/645
80.239.224.0/19		Arelion Sweden AB		100% 645/645
83.168.124.0/24		Private Customer		100% 645/645
84.245.48.0/21		Telia organisation		100% 645/645
84.245.56.0/24		Telia organisation		100% 645/645
84.245.58.0/23		Telia organisation		100% 645/645
84.245.60.0/22		Telia organisation		100% 645/645



25	China Mobile Ir	November 5, 2024		
26	PJSC MegaFon	10:08 PM		
27	Crown Castle Fiber LLC			X AS46887
28	RETN Limited			X AS9002
29	AT&T Services, Inc.			X AS7018
30	BR.Digital Provider			X AS14840
31	Deutsche Telekom AG			X AS3320
32	Core-Backbone GmbH			X AS33891
33	Reliance Jio Infocomm Pte Ltd Singapore			X AS64049
34	Cloudflare, Inc.			X AS13335
35	Vocus Connect International Backbone			X AS4826
36	Akamai Technologies, Inc.			X AS32787
37	Charter Communications Inc			X AS7843
38	Korea Telecom			X AS4766
39	Columbus Networks USA, Inc.			X AS23520
40	FLAG TELECOM UK LIMITED			X AS15412
41	Equinix (EMEA) Acquisition Enterprises B.V.			X AS15830
42	JSC ER-Telecom Holding			X AS9049
43	SEACOM Limited			X AS37100
44	Inter.link GmbH			X AS5405
45	PT Telekomunikasi Indonesia			X AS7713
46	Cox Communications Inc.			X AS22773
47	Sify Limited			X AS9583
48	Internet Initiative Japan Inc.			X AS2497
49	ELETRONET S.A.			X AS26761
50	The Constant Company, LLC			X AS20473
51	TPG Telecom Limited			X AS7545
52	Turk Telekomunikasyon Anonim Sirketi			X AS9121
53	Voxility LLP			X AS3223
54	APNIC ASN block			X AS23764
55	PT. Cyberindo Aditama			X AS38158
56	Liberty Global B.V.			X AS6830
57	PRIVATE JOINT STOCK COMPANY DATAGROUP			X AS3326
58	Bell Canada			X AS577
59	Datacamp Limited			X AS60068
60	Delta Telecom Ltd			X AS29049
61	DIGI ROMANIA S.A.			X AS8708
62	Windstream Communications LLC			X AS7029
63	INETCOM CARRIER LLC			X AS35598
64	PT. Mega Akses Persada			X AS136106
65	CHINANET BACKBONE			X AS4134



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2	Cogent Communications		X	AS174
3	Hurricane Electric LLC		X	AS6939
4	GTT Communications Inc.		X	AS3257
5	TATA COMMUNICATIONS (AMERICA) INC		X	AS6453
6	TELECOM ITALIA SPARKLE S.p.A.		X	AS6762
7	NTT America, Inc.		X	AS2914
8	BHARTI Airtel Ltd.		X	AS9498
9	Zayo Bandwidth		X	AS6461
10	Angola Cables		X	AS37468
11	GlobeNet Cabos Submarinos Colombia, S.A.S.		X	AS52320
12	PJSC Rostelecom		X	AS12389
13	PCCW Global, Inc.		X	AS3491
14	EDGEUNO S.A.S		X	AS7195
15	TELEFONICA GLOBAL SOLUTIONS SL		X	AS12956
16	Vodafone Group PLC		X	AS1273
17	Orange S.A.		X	AS5511
18	Joint Stock Company TransTeleCom		X	AS20485
19	Verizon Business		X	AS701
20	COLT Technology Services Group Limited		X	AS8220
21	Comcast Cable Communications, LLC		X	AS7922
22	PJSC Vimpelcom		X	AS3216
23	Singapore Telecommunications Ltd		X	AS7473
24	Telstra Global		X	AS4637
25	China Mobile International Limited		X	AS58453
26	PJSC MegaFon		X	AS31133
27	Crown Castle Fiber LLC		X	AS46887
28	RETN Limited		X	AS9002
29	AT&T Services, Inc.		X	AS7018
30	BR.Digital Provider		X	AS14840
31	Deutsche Telekom AG		X	AS3320
32	Core-Backbone GmbH		X	AS33891
33	Reliance Jio Infocomm Pte Ltd Singapore		X	AS64049
34	Cloudflare, Inc.		X	AS13335
35	Vocus Connect International Backbone		X	AS4826
36	Akamai Technologies, Inc.		X	AS32787
37	Charter Communications Inc		X	AS7843
38	Korea Telecom		X	AS4766
39	Columbus Networks USA, Inc.		X	AS23520
40	FLAG TELECOM UK LIMITED		X	AS15412





59	Datacamp Limited		X	AS80088
60	Delta Telecom Ltd		X	AS20019
61	DIGI ROMANIA S.A.		X	AS8708
62	Windstream Communications LLC		X	AS7029
63	INETCOM CARRIER LLC		X	AS35598
64	PT. Mega Akses Persada		X	AS136106
65	CHINANET BACKBONE		X	AS4134
66	Superloop		X	AS38195
67	SK Broadband Co Ltd		X	AS9318
68	PT. Saranainsan Mudaselaras		X	AS55655
69	Orange Polska Spolka Akcyjna		X	AS5617
70	Administracion Nacional de Telecomunicaciones		X	AS6057
71	LINK BRASIL TELECOMUNICACOES LTDA			AS271255
72	Stowarzyszenie e-Poludnie		X	AS50607
73	Euroweb Romania S.R.L.		X	AS6663
74	Orange Polska Spolka Akcyjna		X	AS29535
75	SoftBank Corp.		X	AS17676
76	Cablevision Systems Corp.		X	AS6128
77	Charter Communications		X	AS20115
78	AIRE NETWORKS DEL MEDITERRANEO SL UNIPERSONAL		X	AS29119
79	Eurotranstelecom Ltd		X	AS35320
80	Stowarzyszenie e-Poludnie			AS62081
81	Wave Broadband		X	AS11404
82	Unitas Global		X	AS1828
83	Broadband Hosting B.V.		X	AS24785
84	Exatel S.A.		X	AS20804
85	Next Layer Telekommunikationsdienstleistungs- und Beratungs GmbH		X	AS1764
86	A1 Telekom Austria AG		X	AS8447
87	SH.cz s.r.o.		X	AS39392
88	GlobalConnect A/S		X	AS31027
89	FPT Telecom Company		X	AS18403
90	StarHub Ltd		X	AS4657
91	British Telecommunications PLC		X	AS5400
92	Saudi Telecom Company JSC		X	AS39386
93	Zenlayer Inc		X	AS4229
94	SAMM TECNOLOGIA E TELECOMUNICACOES S.A		X	AS262585
95	PT Aplikasi Lintasarta		X	AS4800
96	T-Mobile Polska S.A.		X	AS12912
97	Vodafone Idea Ltd		X	AS55410



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91	British Telecom		X	AS4229
92	Saudi Telecom		X	AS262589
93	Zenlayer Inc		X	AS4229
94	SAMM TECNOLOGIA E TELECOMUNICACOES S.A		X	AS262589
95	PT Aplikanusa Lintasarta		X	AS4800
96	T-Mobile Polska S.A.		X	AS12912
97	Vodafone Idea Ltd		X	AS55410
98	MTS PJSC		X	AS8359
99	FirstLight Fiber, Inc.		X	AS13536
100	F5 Networks SARL		X	AS35280
101	Shaw Communications Inc.		X	AS6327
102	Ote SA (Hellenic Telecommunications Organisation)		X	AS12713
103	Incapsula Inc		X	AS19551
104	TELUS Communications Inc.		X	AS852
105	Philippine Long Distance Telephone Company		X	AS9299
106	Free Pro SAS		X	AS30781
107	EMIRATES TELECOMMUNICATIONS GROUP COMPANY (ETISALAT GROUP) PJSC		X	AS8966
108	Fastweb SpA		X	AS12874
109	Pakistan Telecommunication Company Limited		X	AS17557
110	GlobalConnect AB		X	AS12552
111	Telehouse EAD		X	AS57344
112	UFINET PANAMA S.A.		X	AS52468
113	Orange Romania S.A.		X	AS9050
114	Flexential Colorado Corp.		X	AS13649
115	INDOSAT Internet Network Provider		X	AS4761
116	Viettel Group		X	AS7552
117	Serbia BroadBand-Srpske Kablovske mreze d.o.o.		X	AS31042
118	atom86 BV		X	AS8455
119	KDDI CORPORATION		X	AS2516
120	SWITCH, LTD		X	AS23005
121	A1 Bulgaria EAD		X	AS8717
122	True International Gateway Co., Ltd.		X	AS38082
123	INTERKVM HOST SRL		X	AS6204
124	Fiber Telecom S.p.A.		X	AS41327
125	Verizon Business		X	AS702
126	IELO-LIAZO SERVICES SAS		X	AS29075
127	Cellcom Fixed Line Communication L.P		X	AS1680
128	Init7 (Switzerland) Ltd.		X	AS13030
129	SIA Tet		X	AS12578





125	Verizon Business		X	AS702...
126	IELO-LIAZO SERVICES SAS		X	AS29075
127	Cellcom Fixed Line Communication L.P		X	AS1680
128	Init7 (Switzerland) Ltd.		X	AS13030
129	SIA Tet		X	AS12578
130	1&1 Versatel Deutschland GmbH		X	AS8881
131	Bezeq International Ltd.		X	AS8551
132	IQWeb FZ-LLC		X	AS59692
133	CHINA UNICOM China169 Backbone		X	AS4837
134	TierPoint, LLC		X	AS17378
135	Wholesail networks LLC		X	AS20055
136	JSC Comcor		X	AS8732
137	Beanfield Technologies Inc.		X	AS21949
138	Radware Ltd		X	AS198945
139	Global-Gateway Internet		X	AS4648
140	Telecom Operator & Internet Service Provider as well		X	AS17494
141	Unite Private Networks LLC.		X	AS15164
142	SIA Tet		X	AS5518
143	Atman Sp. z o.o.		X	AS15694
144	WNET TELECOM USA Corp.		X	AS1820
145	Aussie Broadband		X	AS4764
146	Belgacom International Carrier Services SA		X	AS6774
147	Institute of Bioorganic Chemistry Polish Academy of Science, Poznan Supercomputing and Networking Center		X	AS13293
148	HAProxy Technologies, Inc.		X	AS11019
149	Telia Company AB		X	AS3301
150	Prime Telecom srl		X	AS39737
151	HiNet Service Center in U.S.A		X	AS9680
152	RCN		X	AS6079
153	PT Jala Lintas Media		X	AS55685
154	Feenix Communications Limited		X	AS135065
155	Uniti Fiber Holdings Inc.		X	AS13760
156	Linknet-Exchange ASN		X	AS7632
157	Globe Telecoms		X	AS4775
158	Anycast Global Backbone		X	AS58511
159	StormWall s.r.o.			AS59796
160	SWAN, a.s.		X	AS5578
161	Slovak Telekom, a.s.		X	AS6855
162	LLC Nauka-Svyaz		X	AS8641
163	Spirit Communications		X	AS2711
164	Linknet-Exchange		X	AS7632



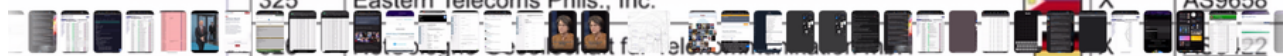


158	Ancast Global	🇷🇺		AS59796
159	StormWall s.r.o.	🇷🇺		AS5578
160	SWAN, a.s.	🇷🇺	X	AS6855
161	Slovak Telekom, a.s.	🇷🇺	X	AS8641
162	LLC Nauka-Svyaz	🇷🇺	X	AS2711
163	Spirit Communications	🇺🇸	X	AS34309
164	Link11 GmbH	🇩🇪	X	AS22652
165	Videotron Ltee	🇨🇦	X	AS18734
166	Operbes, S.A. de C.V.	🇲🇽	X	AS4455
167	IX Reach Ltd	🇬🇧	X	AS8764
168	Telia Lietuva, AB	🇱🇹	X	AS2119
169	Telenor Norge AS	🇳🇴	X	AS137366
170	APNIC ASN block	🇮🇩	X	AS28716
171	Retelit Digital Services S.p.A.	🇮🇹	X	AS8400
172	TELEKOM SRBIJA a.d.	🇷🇸	X	AS25180
173	Exponential-E Ltd.	🇬🇧	X	AS2686
174	AT&T Corp.	🇺🇸	X	AS34927
175	iFog GmbH	🇨🇭	X	AS9009
176	M247 Europe SRL	🇷🇺	X	AS45147
177	PT. NAP Info Lintas Nusa	🇮🇩	X	AS48237
178	Etihad Etisalat, a joint stock company	🇲🇦	X	AS57866
179	Fusix Networks B.V.	🇳🇱	X	AS47147
180	ANEXIA Internetdienstleistungs GmbH	🇦🇹	X	AS12129
181	123.Net, Inc.	🇺🇸	X	AS55900
182	GLBB Japan KK	🇯🇵	X	AS8866
183	Vivacom Bulgaria EAD	🇧🇬	X	AS703
184	Verizon Business	🇺🇸	X	AS5606
185	GTS Telecom SRL	🇷🇺	X	AS212477
186	RoyaleHosting BV	🇳🇱	X	AS24961
187	WIIT AG	🇩🇪	X	AS6667
188	Elisa Oyj	🇫🇮	X	AS31287
189	IPACCT CABLE Ltd	🇧🇬		AS31242
190	P4 Sp. z o.o.	🇵🇱	X	AS199524
191	G-Core Labs S.A.	🇺🇸	X	AS1267
192	WIND TRE S.P.A.	🇮🇹	X	AS1257
193	Tele2 Sverige AB	🇸🇪	X	AS11796
194	Airstream Communications, LLC	🇺🇸	X	AS9930
195	TIME dotCom Berhad No. 14, Jalan Majistret U1/26 Hicom Glenmarie Industrial Park 40150 Shah Alam Sel	🇲🇾	X	AS2603
196	NORDUnet	🇩🇰	X	

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190	P4 Sp. z o.o.		X	AS31242
191	G-Core Labs S.A.		X	AS199524
192	WIND TRE S.P.A.		X	AS1267
193	Tele2 Sverige AB		X	AS1257
194	Airstream Communications, LLC		X	AS11796
195	TIME dotCom Berhad No. 14, Jalan Majistret U1/26 Hicom Glenmarie Industrial Park 40150 Shah Alam Sel		X	AS9930
196	NORDUnet		X	AS2603
197	Iron Mountain Data Center		X	AS12025
198	DataBank Holdings, Ltd.		X	AS13767
199	Zain Omantel International FZ-LLC		X	AS59605
200	Societe Francaise Du Radiotelephone - SFR SA		X	AS15557
201	JSC Silknet		X	AS35805
202	Aureon Network Services		X	AS5056
203	Orange Romania S.A.		X	AS8953
204	T-2, d.o.o.		X	AS34779
205	MEO - SERVICOS DE COMUNICACOES E MULTIMEDIA S.A.		X	AS8657
206	FNE-Finland Oy		X	AS47605
207	Hydra Communications Ltd		X	AS25369
208	Bluebird Network		X	AS62943
209	PrJSC VF UKRAINE		X	AS21497
210	Atlantic Metro Communications II, Inc.		X	AS29838
211	IP-Max SA		X	AS25091
212	Optimum		X	AS19108
213	Hong Kong Broadband Network Ltd.		X	AS9269
214	ARTERIA Networks Corporation		X	AS2519
215	Kyivstar PJSC		X	AS15895
216	Federal State Institution Federal Scientific Research Institute for System Analysis of the Russian Academy of Sciences		X	AS3267
217	Hrvatski Telekom d.d.		X	AS5391
218	Qrator Labs CZ s.r.o.			AS200445
219	APNIC ASN block		X	AS55850
220	OVH SAS		X	AS16276
221	LLC Orange Business Services		X	AS2854
222	HIVELOCITY, Inc.		X	AS29802
223	GNC-Alfa CJSC		X	AS49800
224	EDGOO NETWORKS UNIPESAOAL LDA		X	AS6424



288	UPX US LLC		X	AS11096
289	EastLink		X	AS44306
290	FloridaNet		X	AS9199
291	OMONIA d.o.o.		X	AS13576
292	RENAM Public Association		X	AS6849
293	SOUTH DAKOTA NETWORK		X	AS41313
294	JSC Ukrtelecom		X	AS24875
295	NOVATEL EOOD		X	AS6697
296	NovoServe B.V.		X	AS25400
297	Republican Unitary Telecommunication Enterprise Beltelecom		X	AS8926
298	Telia Norge AS		X	AS13329
299	Moldtelecom SA		X	AS13807
300	Kansas Fiber Network, LLC		X	AS43350
301	Great Plains Communications LLC		X	AS16302
302	NForce Entertainment B.V.		X	AS29632
303	Suomi Communications Oy		X	AS60051
304	Netassist Limited		X	AS45352
305	Earthlink Telecommunications Equipment Trading & Services DMCC		X	AS34549
306	IP ServerOne Solutions Sdn Bhd		X	AS46450
307	meerfarbig GmbH & Co. KG		X	AS786
308	Pilot Fiber, Inc.		X	AS131215
309	Jisc Services Limited		X	AS6922
310	Indosat Singapore Pte. Ltd.		X	AS19024
311	Texas Department of Information Resources		X	AS21013
312	Unitas Global		X	AS50606
313	eww ag		X	AS9902
314	Horyzont Technologie Internetowe sp.z.o.o.		X	AS37721
315	NEOCOMISP LIMITED, IPTX Transit and Network Service Provider in Cambodia.		X	AS14244
316	Virtual Technologies & Solutions		X	AS45758
317	NSI Hosting		X	AS54825
318	APNIC ASN block		X	AS25956
319	Packet Host, Inc.		X	AS12182
320	Alpheus Data Services, L.L.C.		X	AS211181
321	Unitas Global		X	AS14041
322	Civilisation Information Technology, communication and internet services Co., LTD		X	AS45204
323	University Corporation for Atmospheric Research		X	AS9658
324	SEMNET LLC		X	
325	Eastern Telecoms Phils., Inc.		X	





221	LLC Orange B	November 5, 2024 10:08 PM			
222	HIVELOCITY, Inc.			X	AS29802
223	GNC-Alfa CJSC			X	AS49800
224	EDGOO NETWORKS UNIPessoal LDA			X	AS6424
225	LWLcom GmbH			X	AS50629
226	M-net Telekommunikations GmbH			X	AS8767
227	O2 Czech Republic, a.s.			X	AS5610
228	Telia Finland Oyj			X	AS1759
229	Taiwan Internet Gateway			X	AS9505
230	COMCEL GUATEMALA S.A.			X	AS262206
231	Alestra, S. de R.L. de C.V.			X	AS11172
232	OSNET Wireless			X	AS21559
233	Bahnhof AB			X	AS8473
234	Uzbektelekom Joint Stock Company			X	AS28910
235	Syringa Networks, LLC			X	AS15305
236	OneCleveland			X	AS19009
237	PT Cyber Network Indonesia			X	AS38496
238	WholeSale Internet, Inc.			X	AS32097
239	MTN SA			X	AS16637
240	Limelight Networks, Inc.			X	AS22822
241	UNINET			X	AS8151
242	LS Networks			X	AS25899
243	SERVICEPIPE LLC			X	AS201706
244	Network Platforms (PTY) LTD			X	AS328832
245	Great Lakes Comnet, Inc.			X	AS30517
246	Unitas Global			X	AS13789
247	TowardEX Technologies International, Inc.			X	AS27552
248	CLARO S.A.			X	AS4230
249	HighSpeed Office Limited			X	AS39326
250	PRIVATE JOINT-STOCK COMPANY FARLEP-INVEST			X	AS12883
251	DIL Technology Limited			X	AS210021
252	Telia Eesti AS			X	AS3249
253	VERIXI SA			X	AS6696
254	TDC Holding A/S			X	AS3292
255	Grande Communications Networks, LLC			X	AS7459
256	Level-MSK Ltd.				AS52091
257	VECTRA S.A.			X	AS29314
258	Metronet			X	AS30600
259	GoCodeIT Inc			X	AS835





256	Level-MSK Ltd	November 5, 2024 10:08 PM		X	AS52081
257	VECTRA S.A.			X	AS29314
258	Metronet			X	AS30600
259	GoCodeIT Inc			X	AS835
260	Midcontinent Communications			X	AS11232
261	DOMINICAN CABLE GROUP DCG, S.R.L.			X	AS64126
262	JasTel Network International Gateway			X	AS45629
263	XTRA TELECOM S.A.			X	AS15704
264	Amazon.com, Inc.			X	AS16509
265	NEOTEL DOO export-import Skopje			X	AS34772
266	Zenlayer Inc			X	AS21859
267	Telx			X	AS36086
268	AZERTELECOM LLC			X	AS196925
269	GLOBALCONNECT NO			X	AS2116
270	EWE TEL GmbH			X	AS9145
271	Ooredoo Q.S.C.			X	AS8781
272	Atman Sp. z o.o.			X	AS24724
273	Invitech ICT Services Kft.			X	AS12301
274	TOKAI			X	AS10010
275	Emirates Integrated Telecommunications Company PJSC			X	AS15802
276	The Fusion Network, LLC			X	AS19754
277	SAREnet, S.A.			X	AS3262
278	CABLE ONE, INC.			X	AS11492
279	JSC ER-Telecom Holding			X	AS48858
280	Shenandoah Cable Television LLC			X	AS4922
281	Verizon Business			X	AS2828
282	BIGLOBE Inc.			X	AS2518
283	Quantcom, a.s.			X	AS29208
284	TDS TELECOM			X	AS4181
285	PhoenixNAP LLC			X	AS12189
286	GleSYS AB			X	AS42708
287	COORDINADORA DE CARRIER'S, S.A. DE C.V.			X	AS19332
288	UPX US LLC			X	AS400282
289	EastLink			X	AS11260
290	FloridaNet			X	AS11096
291	OMONIA d.o.o.			X	AS44306
292	RENAM Public Association				AS9199
293	SOUTH DAKOTA NETWORK			X	AS13576
294	JSC Ukrtelecom				AS6849





360	DATAKOM CA		X	AS10393
361	Mobifone Global		X	AS10393
362	Nova hf		X	AS44735
363	NEXUSGUARD LIMITED		X	AS45474
364	WiscNet		X	AS2381
365	Airtek Solutions C.A.		X	AS61461
366	Indiana University		X	AS19782
367	Mila hf		X	AS6677
368	AVATEL TELECOM, SA		X	AS200845
369	INEA sp. z o.o.		X	AS13110
370	Accelecom		X	AS31877
371	Hong Kong Beecloud System Technology Services Limited		X	AS140570
372	TOTAL PLAY TELECOMUNICACIONES SA DE CV		X	AS17072
373	Real World - The Core		X	AS45437
374	Krypt Technologies		X	AS4213
375	Oath Holdings Inc.		X	AS10310
376	HostPapa			AS36352
377	MetroOptic, Inc.		X	AS29909
378	Unitas Global		X	AS12179
379	Blacknight Internet Solutions Limited		X	AS39122
380	ERC Broadband		X	AS27446
381	Cogeco Connexion Inc.		X	AS7992
382	noris network AG		X	AS12337
383	FiberLight, LLC		X	AS13876
384	NetCom BW GmbH		X	AS41998
385	DMIT Cloud Services		X	AS906
386	NTS workspace AG		X	AS15576
387	SpainWISP, S.L.		X	AS8637
388	Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.		X	AS680
389	CABLE COLOR LLC		X	AS398947
390	IENTC S DE RL DE CV		X	AS28458
391	Filanco Ukraine Ltd.		X	AS57455
392	Nine Internet Solutions AG		X	AS29691
393	Hot-Net internet services Ltd.		X	AS12849
394	Rackspace Hosting		X	AS12200
395	RADIOKOMUNIKACE a.s.		X	AS25248
396	Netwerkvereniging Coloclue		X	AS8283
397	Quality Technology Services, LLC		X	AS20141
398	Vast Networks			AS54048
399	Blackburn Technologies II, LLC		X	AS23379
400	Grains AB		X	AS7630

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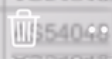
323	University Corp Research			
324	GEMNET LLC			
325	Eastern Telecoms Phils., Inc.		X	AS9658
326	NetCologne Gesellschaft fur Telekommunikation mbH		X	AS8422
327	Korbank S. A.		X	AS35179
328	LUXNETWORK S.A.		X	AS29467
329	Eviny Digital AS		X	AS30950
330	NEAR IP, S.L.		X	AS49600
331	Bell Canada		X	AS855
332	Merit Network Inc.		X	AS237
333	Sri Lanka Telecom PLC, GLObal Peering		X	AS45489
334	GHOSTnet GmbH		X	AS12586
335	University of Maryland		X	AS10886
336	OCTOPUS WEB SOLUTION INC		X	AS984
337	Hrvatski Telekom d.d.		X	AS13046
338	Cyprus Telecommunications Authority		X	AS6866
339	Pixel Factory		X	AS32425
340	Ukrainian Telecommunication Group LLC		X	AS50581
341	Dakota Carrier Network		X	AS26794
342	Aptum Technologies		X	AS13768
343	CETIN Ltd. Belgrade		X	AS15958
344	TPx Communications		X	AS14265
345	Gigahost AS		X	AS56655
346	US Internet Corp		X	AS10242
347	LightEdge Solutions		X	AS11320
348	Blix Solutions AS		X	AS50304
349	PEG TECH INC			AS39882
350	TOT Public Company Limited		X	AS38040
351	PFALZKOM GmbH			AS21473
352	Belcloud LTD			AS44901
353	Hetzner Online GmbH		X	AS24940
354	i3D.net B.V		X	AS49544
355	WorldStream B.V.		X	AS49981
356	Ritter Communications		X	AS23404
357	CETIN a.s.		X	AS28725
358	Melbikomas UAB		X	AS56630
359	Arcadiz Telecom NV		X	AS50309
360	DATACOM CARIBE, INC.		X	AS10396
361	Mobilfone Global JSC		X	AS45896
362	Nova hf		X	AS44735





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398	Vast Networks			
399	Blackburn Technologies II, LLC		X	AS23379
400	84 Grams AB		X	AS57630
401	MobiCom Corporation		X	AS55805
402	Global Communication Net Plc		X	AS12615
403	Universitaet Stuttgart		X	AS553
404	China Mobile International Limited		X	AS58807
405	Odido Netherlands B.V.		X	AS50266
406	VSE NET GmbH		X	AS9063
407	VIRTUA SYSTEMS SAS		X	AS35661
408	StarNet Solutii SRL			AS31252
409	BT Italia S.p.A.		X	AS8968
410	Monaco Telecom S.A.		X	AS6758
411	Lyse Tele AS		X	AS29695
412	Ezee Fiber		X	AS35847
413	Nexthop AS		X	AS49788
414	Allo Communications LLC		X	AS15108
415	BGP Network Limited			AS64050
416	LeaseWeb Network B.V.		X	AS38930
417	Tamare Telecom Ltd		X	AS208905
418	Mediacom Communications Corp		X	AS30036
419	CHINATELECOM CORE WAN CN2		X	AS4809
420	Hive Data Center Inc.		X	AS33185
421	Horyzont Technologie Internetowe sp.z.o.o.		X	AS20552
422	LASOTEL SAS		X	AS39180
423	Futruy s.r.o.		X	AS42000
424	GLASFASER RUHR GmbH & Co. KG			AS12329
425	Plus.line AG		X	AS12306
426	Videotron Ltee		X	AS5769
427	TELECOMUNICACIONES DE GUATEMALA, SOCIEDAD ANONIMA		X	AS14754
428	CD-Telematika a.s.		X	AS25512
429	MVM NET Zrt.		X	AS47169
430	Total Access Communication PLC.		X	AS10089
431	Cablenet Communication Systems plc		X	AS35432
432	Fluency Communications Ltd		X	AS56595
433	Wobcom GmbH		X	AS9136
434	Georgia Institute of Technology		X	AS10490
435	NTS workspace AG		X	AS39040
436	Free Telecom		X	AS8254
437	Daisy Corporate Services Trading Ltd		X	AS5413



435	NTS workspac		X	AS6451
436	FreeTel, s.r.o.		X	AS5413
437	Daisy Corporate Services Trading Ltd		X	AS21334
438	Vodafone Hungary Ltd.		X	AS12722
439	RECONN LLC			AS62214
440	Rackforest Zrt.		X	AS7342
441	VeriSign Infrastructure & Operations		X	AS20676
442	Plusnet GmbH		X	AS29405
443	VNET a.s.		X	AS15169
444	Google LLC		X	AS212261
445	Stowarzyszenie e-Poludnie		X	AS60610
446	Amito Ltd		X	AS9044
447	BSE Software GmbH		X	AS12083
448	WideOpenWest Finance LLC		X	AS49808
449	Energie AG Oberoesterreich Services und Digital Solutions GmbH		X	AS29551
450	Aixit GmbH		X	AS15570
451	PACKETFABRIC (UK) LTD			AS46208
452	Peninsula Fiber Network, LLC		X	AS15932
453	TELENOR LINX AS		X	AS271
454	BCNET		X	AS27947
455	Telconet S.A		X	AS62240
456	Clouvider Limited		X	AS31229
457	Beyond.pl sp. z o.o.		X	AS16347
458	ADISTA SAS		X	AS48362
459	Stadtwerke Feldkirch		X	AS12637
460	SEEWEB s.r.l.		X	AS9829
461	National Internet Backbone		X	AS8368
462	Destiny N.V		X	AS15133
463	Edgecast Inc.		X	AS35133
464	Eranium B.V.		X	AS18809
465	Cable Onda		X	AS21976
466	NJEDge.Net, Inc.		X	AS9824
467	JCOM Co., Ltd.		X	AS5466
468	Eircom Limited		X	AS17547
469	M1 NET LTD		X	AS47176
470	GAS&COM AG		X	AS12180
471	Unitas Global		X	AS32133
472	Ting Fiber Inc.		X	AS25144
473	Telekomunikacije Republike Srpske akcionarsko drustvo Banja Luka		X	



544	Vorboss Limited		X	AS210104
545	Peace Commun.		X	AS3225
546	Wawtel Sp. z o.o.		X	AS56987
547	GULFNET COMMUNICATIONS CO. WLL		X	AS9146
548	ABACLOUDA SAS		X	AS203201
549	BH Telecom d.d. Sarajevo		X	AS56308
550	STACK EMEA - ITALY S.P.A.		X	AS11269
551	TELEKOMUNIKASI INDONESIA INTERNATIONAL, PTE.LTD		X	AS8896
552	LinkBermuda LTD		X	AS20904
553	GLOBALCONNECT AS		X	AS21351
554	Cinia Oy		X	AS47957
555	Canal + Telecom SAS		X	AS20836
556	Worldline IGSA SA		X	AS42184
557	CDLAN SpA		X	AS24088
558	TKRZ Stadtwerke GmbH		X	AS28968
559	Hanoi Telecom Joint Stock Company - HCMC Branch		X	AS2495
560	JSC Evrasia Telecom Ru		X	AS11830
561	Kansas Research and Education Network		X	AS7819
562	Instituto Costarricense de Electricidad y Telecom.		X	AS35266
563	Global IP Networks INC		X	AS137831
564	EX Networks Limited		X	AS201814
565	SHOPEE SINGAPORE PRIVATE LIMITED		X	AS32270
566	MEVSPACE sp. z o.o.		X	AS13825
567	LD Telecommunications, Inc.		X	AS21947
568	Troy Cablevision, Inc.		X	AS136935
569	Blackfoot Telephone Cooperative, Inc.		X	AS9085
570	APNIC ASN block		X	AS6503
571	SUPERMEDIA Sp.z.o.o.		X	AS33554
572	Axtel, S.A.B. de C.V.		X	AS203325
573	Neutral Data Centers Corp.		X	AS395662
574	NTT Global Data Centers EMEA GmbH		X	AS43541
575	OzarksGo, LLC		X	AS34428
576	VSHosting s.r.o.		X	AS31477
577	Giulio Lo Presti		X	AS50923
578	Duocast B.V.		X	AS8560
579	Metroset Ltd.		X	AS45543
580	IONOS SE		X	AS9211
581	SaiGon Tourist cable Television Company		X	AS13213
582	Nawork Internet Informationssysteme GmbH		X	AS25568
583	UK-2 Limited		X	





472	Ting Fiber Inc.		X	AS25144
473	Telekomunikacije Republike Srbije akcionarsko drustvo Banja Luka		X	AS13855
474	The Municipal Communications Utility of the City of Cedar Falls, Iowa		X	AS44066
475	firstcolo GmbH		X	AS13287
476	FALBOX S.L. trading as NIXVAL		X	AS20940
477	Akamai International B.V.		X	AS8001
478	Cologix, Inc		X	AS40065
479	CNSERVERS LLC			AS63927
480	RISE		X	AS33308
481	Telia Company AB		X	AS53610
482	Metro Communications Company, Inc.		X	AS56665
483	Proximus Luxembourg S.A.		X	AS14745
484	Unitas Global		X	AS44356
485	Epsilon Telecommunications Ltd		X	AS42649
486	Baffin Bay Networks AB		X	AS18059
487	DTPNET NAP		X	AS49289
488	Omegacom S.R.L.S.			AS8544
489	Primetel PLC		X	AS394177
490	SHIFT HOSTING LLC		X	AS27589
491	MOJOHOST		X	AS14103
492	ACD.net		X	AS30962
493	comtrance service GmbH		X	AS26496
494	GoDaddy.com, LLC		X	AS42473
495	ANEXIA Internetdienstleistungs GmbH		X	AS21277
496	Allay Nawroz Telecom Company for Communication/Ltd.		X	AS18351
497	PT Media Akses Global Indo, Internet Provider Jakarta			AS19429
498	ETB - Colombia		X	AS39642
499	Norlys Digital A/S		X	AS28509
500	Cablemas Telecomunicaciones SA de CV		X	AS5078
501	Oklahoma Network for Education Enrichment and		X	AS10913
502	Unitas Global		X	AS33965
503	LITECOM AG		X	AS137
504	Consortium GARR		X	AS15623
505	Cyberlink AG		X	AS36351
506	SoftLayer Technologies Inc.		X	AS20647
507	IPB Internet Provider in Berlin GmbH		X	AS16851
508	Nebraskalink		X	AS34594
509	Telemach Hrvatska d.o.o.		X	





581	SaiGon Tourist		X	AS45543
582	Nawork Internet Informationssysteme GmbH		X	AS9211
583	UK-2 Limited		X	AS13213
584	HNTELCO S.A			AS265686
585	Unitas Global		X	AS14742
586	Megacable Comunicaciones de Mexico, S.A. de C.V.		X	AS14178
587	FiberX		X	AS6208
588	ONEQODE ASSETS PTY LTD		X	AS140627
589	Albanian Telecommunications Union SH. P.K.		X	AS198279
590	Steadfast		X	AS32748
591	Trusted Network GmbH		X	AS21385
592	Tier.Net Technologies LLC		X	AS397423
593	Falcore Investments Pty Ltd		X	AS148966
594	ecotel communication ag		X	AS12312
595	JSC Avantel		X	AS51178
596	Limestone Networks, Inc.		X	AS46475
597	Mada Al-Arab General Services Company		X	AS51407
598	Uniontel Ltd		X	AS48293
599	Telco Pro Services, a. s.		X	AS39791
600	Lao Telecom Communication, LTC		X	AS9873
601	ParadoxNetworks Limited		X	AS52025
602	Sentia Denmark A/S		X	AS47292
603	ALWAYS ON SAS		X	AS50628
604	Phonoscope, Inc.			AS22442
605	Makedonski Telekom AD-Skopje			AS6821
606	Quality Technology Services, LLC		X	AS394968
607	INTERSPACE DOOEL Skopje		X	AS200895
608	Host Europe GmbH		X	AS20773
609	FASTER CZ spol. s r.o.			AS24641
610	KIFU (Governmental Info Tech Development Agency)		X	AS1955
611	The Communications Authority of Thailand(CAT)		X	AS4651
612	FirstDigital Communications, LLC		X	AS13415
613	Daniel Jackson		X	AS212027
614	Services Industriels de Geneve		X	AS20932
615	Arizona Board of Regents		X	AS62600
616	BIT BV		X	AS12859
617	FORTEX CJSC		X	AS48166
618	JSC Selectel		X	AS50340
619	Baylor College of Medicine		X	AS302





509	Telemach Hrvatska		X	AS3458
510	xTom GmbH		X	AS3214
511	NorthC Schweiz AG		X	AS42346
512	Oracle Corporation		X	AS31898
513	R-KOM Regensburger Telekommunikationsgesellschaft mbH		X	AS60169
514	Tashi InfoComm Limited		X	AS38740
515	GANDI SAS		X	AS29169
516	HYEHOST LTD		X	AS47272
517	VAS Latvijas Valsts radio un televīzijas centrs		X	AS8194
518	Oxylion S. A.		X	AS58321
519	oja.at GmbH		X	AS39912
520	Bredband2 AB		X	AS29518
521	Društvo za telekomunikacije Orion telekom doo Beograd-Zemun			AS9125
522	Citytelecom LLC		X	AS29076
523	PC Astra-net		X	AS49824
524	Abissnet sh.a.		X	AS35047
525	31173 Services AB		X	AS39351
526	Mythic Beasts Ltd		X	AS44684
527	Biz Telecom LLC		X	AS197453
528	MBA DATACENTERS S.L.		X	AS43578
529	NETSTAR (SG) PTE. LTD.		X	AS10122
530	NSFOCUS, Inc.		X	AS8757
531	Central Utah Telephone, Inc.		X	AS36103
532	Jump Networks Ltd		X	AS8943
533	Square, Inc.		X	AS15211
534	Armstrong		X	AS27364
535	Cityfibre Limited		X	AS8468
536	Sonic Telecom LLC		X	AS46375
537	Aruba S.p.A.		X	AS31034
538	ComSource s.r.o.		X	AS199803
539	TeraSwitch Networks Inc.		X	AS20326
540	MIRhosting B.V.		X	AS52000
541	2 connect a.s.		X	AS35236
542	eTOP sp. z o.o.		X	AS20853
543	CONSORCIO DE TELECOMUNICACIONES AVANZADA S.A.		X	AS199434
544	Vorboss Limited		X	AS25160
545	Peace Communications LLC		X	AS20448
546	wawtel Sp. z o.o.			AS210104
547	GULFNET COMMUNICATIONS CO. WLL			AS3225





616	BIT BV			
617	FORTEX CJSC			
618	JSC Selectel		X	AS50340
619	Baylor College of Medicine		X	AS302
620	BeotelNet-ISP d.o.o		X	AS6700
621	Vox Telecom Ltd		X	AS11845
622	DHIVEHI RAAJJEYGE GULHUN PLC		X	AS7642
623	Netwise Hosting Ltd		X	AS60800
624	NTE TELEKOM AS		X	AS34087
625	inexio Informationstechnologie und Telekommunikation Gmbh		X	AS8899
626	NOVITATELECOM LLC		X	AS59589
627	Netrouting B.V.		X	AS6206
628	Smithville Digital, LLC			AS11550
629	HALLAG Kommunal GmbH		X	AS34347
630	Melita Limited		X	AS12709
631	1651884 Ontario Inc.		X	AS40028
632	NHM - S.R.L.		X	AS62275
633	AVANT Ltd.			AS199026
634	23M GmbH		X	AS47447
635	ESTOXY OU			AS3920
636	Aspire Technology Solutions Ltd		X	AS51043
637	Planet Networks		X	AS3580
638	JMP Technology Services GmbH		X	AS61423
639	D-LAKE SAS		X	AS49028
640	S-IT Verwaltungs GmbH trading as S-IT Informationstechnologie Betreiber GmbH & Co. KG im Nordschwarzwald		X	AS39702
641	Quality Technology Services, LLC		X	AS17018
642	SpaceNet AG		X	AS5539
643	NEUTRAL NETWORKS, S de RL de CV		X	AS270126
644	JSC Avantel		X	AS25549
645	Unitas Global		X	AS30282
646	Outremer Telecom SAS			AS20776
647	INOC, LLC		X	AS22302
648	Arvig Enterprises Inc.		X	AS16904
649	Natural Wireless, LLC			AS18616
650	Rice University		X	AS4557
651	PJSC Vimpelcom		X	AS8402
652	Information System Authority		X	AS8240
653	WIA spol. s.r.o.		X	AS21430
654	Ryamer, LLC		X	AS400587



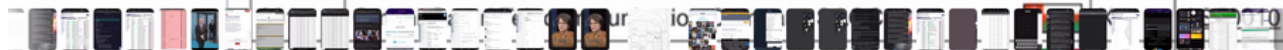
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691	Omani Qatari T			
692	HAL Service Sp			
693	JSC Ufanet		X	AS47775
694	Compaa Dominicana de Telfonos S. A.		X	AS6400
695	vServer.site LTD		X	AS56382
696	WebNX, Inc.		X	AS18450
697	EMTEL LIMITED			AS30999
698	Microsoft Corporation		X	AS8075
699	ColoHouse LLC		X	AS47869
700	MDS TELECOM C.A.		X	AS269832
701	JSC Selectel			AS49505
702	Digital Realty (UK) Limited		X	AS49425
703	Foremost Telecommunications			AS23486
704	ARTMOTION SH.P.K.			AS33983
705	Unitas Global		X	AS11855
706	MULTICABLE NETWORK LLC		X	AS54082
707	NCRYPTD NET LTD		X	AS34465
708	Aerux LLP		X	AS63270
709	European Network			AS249
710	Logosnet Services Limited		X	AS5504
711	University of Minnesota		X	AS57
712	Accenture B. V.		X	AS8315
713	Sohonet Limited		X	AS16164
714	Sumofiber		X	AS4226
715	PODA a.s.		X	AS30764
716	Chunghwa Telecom Global, INC			AS33717
717	Infinity Telecom, s.r.o.		X	AS49121
718	KEVAG Telekom GmbH		X	AS12360
719	OOO NIIR-RadioNet		X	AS16143
720	Mixvoip S.A.		X	AS206610
721	GeoLinks		X	AS54483
722	Sky Engineering LLC			AS50254
723	htp GmbH		X	AS13045
724	DATAPLANET Ltd.			AS44964
725	VODAFONE ESPANA S.A.U.		X	AS12430
726	APNIC ASN block			AS17984
727	BalaLink S.A.		X	AS59908
728	ConnetU Ltd.		X	AS51945
729	Hawt Telekom S.A. in Restructuring		X	AS42739
730	PlusServer GmbH		X	AS61157





653	WIA spol. s.r.o.	November 5, 2024		X	AS1430
654	Ryamer, LLC	10:08 PM		X	AS1430
655	eww ag			X	AS3330
656	Thuega SmartService GmbH			X	AS198726
657	RelAix Networks GmbH			X	AS34953
658	Bouygues Telecom SA			X	AS5410
659	ANTENNA HUNGARIA Magyar Musorszoro es Radiohirkozlesi Zartkoruen Mukodo Reszvenytarsasag			X	AS8990
660	Converge ICT Solutions Inc.			X	AS17639
661	MOBIFONE Corporation			X	AS131425
662	Therecom Ltd			X	AS35614
663	Broadband Visions, LLC			X	AS25615
664	ha-vel internet s.r.o.			X	AS15935
665	Advania Island ehf			X	AS30818
666	Quality Technology Services, LLC			X	AS53907
667	ANGKOR DATA COMMUNICATION				AS38235
668	WhiteSky Communications, LLC.			X	AS62887
669	CASABLANCA INT a.s.			X	AS15685
670	Sony Interactive Entertainment LLC			X	AS33353
671	Infomaniak Network SA			X	AS29222
672	EPIC Alliance, Inc.				AS27195
673	Master Internet s.r.o.			X	AS24971
674	Netcalibre Ltd			X	AS25098
675	APNIC ASN block			X	AS23930
676	British Telecommunications PLC			X	AS3300
677	Westelcom Internet, Inc.			X	AS11722
678	Phibee Telecom SAS			X	AS8487
679	LLC Cifrovie Seti Urala				AS209307
680	Nodes Direct			X	AS19531
681	Staclar Carrier Ltd.			X	AS34854
682	360NET C.A.			X	AS267805
683	INTERNET AG Global Network			X	AS8495
684	Localitel bvba			X	AS48408
685	Skyware Sp. z o.o.				AS42673
686	Linkt SAS			X	AS44407
687	Simply Transit Ltd			X	AS29550
688	University of Missouri - dba the Missouri Research and Education Network (MOREnet)			X	AS2572
689	America Movil Peru S.A.C.			X	AS12252
690	Cogeco Connexion inc			X	AS11290





776	Aztekom LLC		X	AS39357
777	Tritan Development		X	AS20021
778	Ntirety, Inc.		X	AS559
779	SWITCH		X	AS9208
780	WIN S.A.		X	AS6233
781	xTom		X	AS8365
782	Man-da.de GmbH		X	AS25460
783	The Networking People (TNP) Limited		X	AS8893
784	Artfiles New Media GmbH		X	AS35415
785	Webzilla B.V.		X	AS45498
786	SMART AXIATA Co., Ltd.		X	AS25192
787	CZ.NIC, z.s.p.o.		X	AS21808
788	Peerless Network Inc		X	AS5645
789	TekSavvy Solutions, Inc.		X	AS12350
790	VTX Services SA		X	AS42005
791	LightStorm Services s.r.o.		X	AS3128
792	University of Wisconsin System		X	AS13542
793	Total Information Management Corporation		X	AS1421
794	WANSecurity, Inc.		X	AS57395
795	synaforce GmbH		X	AS15943
796	wilhelm.tel GmbH		X	AS12491
797	Gilat Telecom Ltd.		X	AS5394
798	UNIDATA S.p.A.		X	AS34525
799	KOBA Sp. z o.o.		X	AS29748
800	Quality Technology Services, LLC		X	AS34244
801	Teleservice Bredband Skane AB		X	AS21453
802	Flex Ltd.		X	AS11114
803	Wintek Corporation		X	AS9123
804	TimeWeb Ltd.		X	AS13101
805	TNG Stadtnetz GmbH		X	AS48635
806	CLDIN B.V.		X	AS47973
807	Digital Realty Netherlands B.V.		X	AS8375
808	Telehouse Deutschland GmbH		X	AS28398
809	INTERNET TELEFONIA Y TV DE MICHOACAN SA DE CV		X	AS35575
810	Vaioni Group Ltd		X	AS60764
811	Telecom Samara LLC		X	AS13781
812	Hopkinsville Electric System		X	AS11767
813	Quality Technology Services, LLC		X	AS62955
814	eBay, Inc		X	AS41720



741	eStruxture Data		X	AS47379
742	WoodyNet, Inc.		X	AS5385
743	SITS Ltd		X	AS50533
744	Russmedia IT GmbH		X	AS47887
745	I.T.E.N.O.S. International Telecom Network Operation Services GmbH		X	AS38880
746	AL-HADATHEH LIL-ITISALAT WA AL-TECHNOLOGIA CO.		X	AS60822
747	Micron21 Datacentre Pty Ltd		X	AS7979
748	Wispone S.R.L.		X	AS12941
749	Servers.com, Inc.		X	AS17293
750	intersaar GmbH		X	AS29107
751	VTX Communications LLC		X	AS48152
752	Private Stock company Sater		X	AS140224
753	Digital Frankfurt GmbH		X	AS40387
754	STARCLOUD GLOBAL LLC		X	AS12897
755	University of Illinois		X	AS60064
756	ENTEKA Medianet GmbH		X	AS8647
757	HOSTPALACE DATACENTERS LTD		X	AS50245
758	IP Port LLC		X	AS11071
759	Serverel Inc.		X	AS139831
760	InfoWest		X	AS8636
761	DITO TELECOMMUNITY CORP.		X	AS14522
762	MAXnet Systems Ltd.		X	AS396930
763	SERVICIOS DE TELECOMUNICACIONES SETEL S.A. (XTRIM EC)		X	AS20521
764	Opus Interactive		X	AS15146
765	Bellnet Limited		X	AS42541
766	Cable Bahamas		X	AS12676
767	Fiberby ApS		X	AS23550
768	HKN GmbH		X	AS40994
769	HUB Advanced Networks, LLC		X	AS5429
770	Hohl IT e.U.		X	AS197790
771	Telecommunications center UMOS, LLC		X	AS34254
772	Actus S.A.		X	AS40463
773	HOR.NET Polska Sp.z o.o.		X	AS8796
774	Fiber Utility Network, Inc.		X	AS34170
775	FASTNET DATA INC		X	AS393577
776	Aztelemek LLC		X	AS20021
777	Tritan Development		X	
778	Ntirety, Inc.		X	



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810	Vaioni Group L			
811	Telecom Samara LLC			AS60764
812	Hopkinsville Electric System		X	AS13781
813	Quality Technology Services, LLC		X	AS11767
814	eBay, Inc		X	AS62955
815	REVOLUTION PROVIDER SRL		X	AS41720
816	3W Infra B.V.		X	AS60144
817	Sony Network Communications Inc.		X	AS2527
818	Nets and Services JCS			AS57174
819	Geodim Ltd.			AS29687
820	Hofmeir Media GmbH		X	AS196922
821	Limited Liability Company Transneft Telecom		X	AS60388
822	OpenXS GmbH		X	AS3331
823	United Telephone Company		X	AS40237
824	EnjoyVC Japan Corporation			AS139076
825	Dialog Axiata PLC.			AS18001
826	Andrews & Arnold Ltd			AS20712
827	ILK Internet.GmbH		X	AS12480
828	Istqrar for Servers Services Ltd		X	AS211826
829	SeaExpress Ltd.			AS31444
830	IVER NORGE AS		X	AS57829
831	Netnod AB		X	AS8674
832	LLC Smart Ape		X	AS56694
833	Rozint Ltd Co		X	AS21738
834	Zayo Infrastructure France SA		X	AS8218
835	Solcon Internetdiensten B.V.		X	AS12414
836	Parker FiberNet, LLC			AS40111
837	TM TECHNOLOGY SERVICES SDN BHD		X	AS4788
838	CTCSCI TECH LIMITED		X	AS9886
839	Alphalink SASU		X	AS25540
840	Home Telephone Company, Inc.		X	AS16863
841	Fiberwide S.p.a.			AS51569
842	Southwest Arkansas Telephone Cooperative			AS46632
843	DIGI Tavkozlesi es Szolgaltato Kft.		X	AS20845
844	Elite Limited		X	AS29611
845	Copaco Cloud B.V.		X	AS38983
846	CETIN Bulgaria EAD			AS29244
847	APNIC ASN block			AS136836
848	Liden Data Internetwork AB			AS25466



844	Elite Limited	November 5, 2024 10:08 PM			
845	Copaco Cloud B.v.			X	AS38983
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849	Redge Technologies sp. z o.o.			X	AS57811
850	Opteamax GmbH			X	AS48200
851	CEGECOM S.A.			X	AS15965
852	Expereo International BV			X	AS15695
853	KDDI America Inc.			X	AS4459
854	Telmex Colombia S.A.			X	AS14080
855	BrightRidge			X	AS22987
856	UNMANAGED LTD			X	AS47890
857	EveryWare AG				AS24951
858	Stealth Broadband				AS395194
859	Merula Limited			X	AS16353
860	COM-IN Telekommunikations GmbH			X	AS51402
861	Adaptive Data Networks, LLC			X	AS23367
862	Opus Interactive			X	AS14380
863	Citytelecom LLC			X	AS33962
864	Net at Once Sweden AB			X	AS35706
865	E-Light-Telecom Ltd.				AS39927
866	doof.net			X	AS395823
867	AMT GROUP TELECOM Limited Liability Company				AS9110
868	Cronos NV				AS48638
869	cmcnetworks			X	AS25818
870	ANS ACADEMY LIMITED			X	AS61323
871	SBA Edge, LLC			X	AS19844
872	BaikalWestCom			X	AS50187
873	Sieci Blokowe S.C.				AS51484
874	ORANGE BUSINESS SERVICES U.S. Inc.			X	AS2874
875	DELTA ONLINE spol. s r.o.			X	AS34820
876	Warian S.R.L.			X	AS56911
877	JSC Avantel				AS197235
878	Zhejiang Taobao Network Co.,Ltd			X	AS24429
879	QuadraNet Enterprises LLC			X	AS8100
880	Disaster Networks, LLC				AS17303
881	IP Transit Inc.			X	AS46786
882	regio[.NET] Holding GmbH			X	AS8804

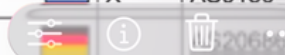
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920	GLU TECHNOLOGIES, S.L.		X	AS20255
921	Velocity Network, Inc.			AS7341
922	Free SAS		X	AS12322
923	JSC ER-Telecom Holding		X	AS25408
924	Cadence Networks Ltd		X	AS47638
925	JSC IOT		X	AS29182
926	Cologuard		X	AS22418
927	ООО Группа МосLine		X	AS31370
928	Board of Regents of the University System of Georgia			AS3479
929	Softnet Limited		X	AS13515
930	LLC VK		X	AS47764
931	UFINET MEXICO S. DE R.L. DE C.V.		X	AS26562
932	net.de AG		X	AS15743
933	F2X Operator B.V.		X	AS57112
934	A2A Smart City S.P.A			AS12445
935	dogado GmbH		X	AS8648
936	FORWEB S.C. Monika Bodetko, Tomasz Pawlowski		X	AS33951
937	NextGenTel AS		X	AS15659
938	Erdenreich Datentechnik GmbH		X	AS13247
939	Gibtelecom Ltd.		X	AS8301
940	BEN LOMAND RURAL TELEPHONE COOPERATIVE, INC.		X	AS21766
941	ACEVILLE PTE.LTD.		X	AS139341
942	Trinity Network Solutions		X	AS398044
943	E-Gate Communications Inc.		X	AS13657
944	MTC Communications, Inc.		X	AS14363
945	Nuday Networks Inc.			AS1100
946	Diyixian.com Limited		X	AS9584
947	AllPoints Fibre Limited		X	AS5482
948	POCOS B.V.		X	AS50522
949	Dr.-Ing. Nepustil & Co. GmbH Internet Service Center Ingenieurgesellschaft fuer Systemsoftware und Kommunikationstechnik		X	AS33843
950	INTAC Services GmbH		X	AS20375
951	PTI Pacifica Inc.		X	AS7131
952	Fiberaccessbolaget i Sverige AB			AS20239
953	ML Consultancy		X	AS9150

880	Disaster Network			
881	IP Transit Inc.			
882	regio[.NET] Holding GmbH		X	AS8804
883	RTC Communications Corp.		X	AS393227
884	AIRESPRING, INC.		X	AS26375
885	ASK4 Limited		X	AS41230
886	Conexon Connect		X	AS399896
887	PayPal, Inc.			AS17012
888	Bykov Roman Andreevich		X	AS48610
889	PacketHub S.A.		X	AS141035
890	Haridus- ja Teadusministeerium		X	AS3221
891	Aktsiaselts WaveCom		X	AS34702
892	Zen Internet Ltd		X	AS13037
893	Host-Telecom.com s.r.o.		X	AS51248
894	Noris-ITK GmbH		X	AS47526
895	NIDIX NETWORKS S.A. DE C.V.		X	AS265627
896	Race Tech, LLC		X	AS30041
897	Vianova S.p.A		X	AS21056
898	Cleura AB		X	AS42695
899	S1 Networks Oy		X	AS199506
900	VADAVO SOLUCIONES SL		X	AS5505
901	Tampnet AS		X	AS200781
902	Tripnet AB		X	AS34385
903	Neocarrier Communications Sarl			AS48885
904	Art of Automation B.V.		X	AS60893
905	Dynascale Technologies, Inc.			AS7296
906	InterneXt 2000, s.r.o.		X	AS25424
907	RUCOMTECH LLC		X	AS207133
908	IGT LOTTERY S.P.A.		X	AS35574
909	EDPNET Belgium BV		X	AS9031
910	Allegro sp. z o.o.		X	AS31621
911	DE-CIX Management GmbH		X	AS51531
912	Wantelco SAS de CV		X	AS270156
913	smartTERRA GmbH		X	AS35548
914	Sky UK Limited		X	AS5607
915	AS-FIBRECOMM-MY- Internet Service Provider		X	AS45630
916	Marston's Telecoms Limited		X	AS61124
917	Connective Online Limited		X	AS39175
918	LinzNet Internet Service Provider GmbH			AS28889
919	LANSOFT DATA SRL		X	AS31554



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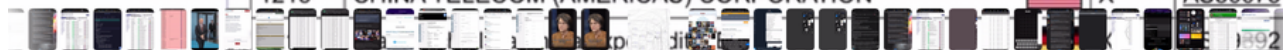


953	ME Consultancy			
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955	SALZBURG AG fur Energie, Verkehr und Telekommunikation		X	AS84445
956	Netnam Company		X	AS24173
957	Rambler Internet Holding LLC		X	AS24638
958	Iristel Inc			AS33164
959	VOO S.A.		X	AS12392
960	IT arte Sp. z o.o.			AS24929
961	HostHatch, LLC		X	AS63473
962	I NET BULGARIA EOOD		X	AS60447
963	China Unicom Global			AS10099
964	Easynet S.P.A.		X	AS21454
965	Estabanell Impulsa S.A			AS200434
966	Haendle & Korte GmbH		X	AS44700
967	XMATICA SRL			AS60475
968	AVUR AS		X	AS50272
969	akquinet outsourcing gGmbH		X	AS35258
970	Catixs Ltd		X	AS48266
971	QuickPacket, LLC		X	AS46261
972	SOCIAL MARKETING AND PROMOTIONS S.A. DE C.V.		X	AS265840
973	Broadband Gibraltar Limited		X	AS34803
974	Latvijas Mobilais Telefons SIA		X	AS12847
975	AOFEI DATA INTERNATIONAL COMPANY LIMITED		X	AS135391
976	SWN Stadtwerke Neumuenster GmbH			AS207790
977	Vapor IO, Inc.		X	AS5670
978	West Carolina Communications, LLC			AS10279
979	DigitalOcean, LLC		X	AS14061
980	Plusinfo OOO			AS24936
981	Contabo GmbH		X	AS51167
982	LinkedIn Corporation		X	AS14413
983	LM Layer and Mesh AB		X	AS42303
984	VMWare, Inc.		X	AS53766
985	Unwired Broadband, LLC		X	AS33548
986	Ekaterinburg-2000 LLC		X	AS31499
987	DSM (GB) Limited		X	AS48070
988	One.com A/S		X	AS51468
989	Citizens Telephone Cooperative		X	AS16942
990	TIS Dialog LLC		X	AS31214
991	IP Connect Inc		X	AS213373
992	Interphase Communications, Inc.			AS54301





1177	LueneCom Kor mbH		X	AS4020
1178	Pacific Internet Pte Ltd			AS20016
1179	DATAPRO Limited Liability Company		X	AS20205
1180	Amplex Electric, Inc.		X	AS4258
1181	Accretive Networks			AS47171
1182	Kindred IP Limited			AS12958
1183	T2 Mobile LLC			AS54548
1184	IONOS Cloud Inc.		X	AS56252
1185	PT. Kreatif Pasific			AS139750
1186	IDCServices.net Inc			AS38176
1187	ABS Global			AS215226
1188	Sirius LLC			AS50477
1189	Svyaz-Energo Ltd.		X	AS395856
1190	2K GAMES, Inc.			AS57353
1191	vitroconnect GmbH		X	AS398102
1192	GoDaddy.com, LLC		X	AS4474
1193	TCT West, Inc.		X	AS55944
1194	Ooredoo Maldives Plc		X	AS398106
1195	GoDaddy.com, LLC		X	AS397518
1196	GoDaddy.com, LLC		X	AS39570
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1202	WebSupport s.r.o.		X	AS205765
1203	Mainzer Breitband GmbH		X	AS400475
1204	Nuclearfallout Enterprises, Inc.		X	AS48173
1205	Orange Business Digital Germany GmbH		X	AS26613
1206	CORPORACION NACIONAL DE TELECOMUNICACIONES - CNT EP		X	AS204770
1207	UAB Cherry Servers		X	AS60154
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1209	JSC RCS			AS39869
1210	Livenet Sp. z o.o.		X	AS8646
1211	cloudinfrastack, s.r.o.			AS50469
1212	Peer Kohlstetter trading as Hessenkom GmbH & Co. KG			AS47927
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1214	Single Point Global, Inc.			AS36678
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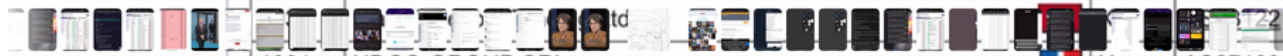


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933	F2X Operator B.V.		X	AS12445
934	A2A Smart City S.P.A			AS8648
935	dogado GmbH		X	AS33951
936	FORWEB S.C. Monika Bodetko, Tomasz Pawlowski		X	AS15659
937	NextGenTel AS		X	AS13247
938	Erdenreich Datentechnik GmbH		X	AS8301
939	Gibtelecom Ltd.		X	AS21766
940	BEN LOMAND RURAL TELEPHONE COOPERATIVE, INC.		X	AS139341
941	ACEVILLE PTE.LTD.		X	AS398044
942	Trinity Network Solutions		X	AS13657
943	E-Gate Communications Inc.		X	AS14363
944	MTC Communications, Inc.		X	AS1100
945	Nuday Networks Inc.			AS9584
946	Diyixian.com Limited		X	AS5482
947	AllPoints Fibre Limited		X	AS50522
948	POCOS B.V.		X	
949	Dr.-Ing. Nepustil & Co. GmbH Internet Service Center Ingenieurgesellschaft fuer Systemsoftware und Kommunikationstechnik		X	AS33843
950	INTAC Services GmbH		X	AS203755
951	PTI Pacifica Inc.		X	AS7131
952	Fiberaccessbolaget i Sverige AB			AS202395
953	ML Consultancy		X	AS9150
954	Bisping & Bisping GmbH & Co KG			AS20686
955	SALZBURG AG fur Energie, Verkehr und Telekommunikation		X	AS8445
956	Netnam Company		X	AS24173
957	Rambler Internet Holding LLC		X	AS24638
958	Intel Inc			AS33164
959	VOO S.A.		X	AS12392





991	IP Connect Inc	November 5, 2024 10:08 PM			AS213377
992	Interphase Communications, Inc.				AS54301
993	Internet Systems Consortium, Inc.			X	AS1280
994	Yandex.Cloud LLC			X	AS200350
995	Telecable Economico S.A.				AS52263
996	Georgia System Operations, Corporation				AS63370
997	Qlosr AB				AS51956
998	FastNet International Ltd			X	AS12519
999	Path Network, Inc.			X	AS396996
1000	AO Countrycom				AS25189
1001	Joint Stock Company Kuzbassenergosviaz				AS24811
1002	Actual Broadband			X	AS32913
1003	NORTHERN DATA SERVICES (UK) LIMITED			X	AS200675
1004	Discovery Networks International LLC				AS62935
1005	Kakao Corp			X	AS10158
1006	Facebook, Inc.			X	AS32934
1007	Information Technology and Cyber Security Service				AS39279
1008	PacketHub S.A.			X	AS207137
1009	Krypt Technologies			X	AS35908
1010	Unitas Global			X	AS10912
1011	Peter Rauter GmbH			X	AS39878
1012	connecta ag			X	AS31662
1013	NexonHost Srl				AS62390
1014	Bicentel SA de CV			X	AS28394
1015	NetCom-R LLC			X	AS49531
1016	LU-CIX Management GIE			X	AS208374
1017	P4 Sp. z o.o.			X	AS39603
1018	equada network GmbH			X	AS25220
1019	Petrus Spolka z ograniczona odpowiedzialnoscia			X	AS44914
1020	net-and-phone GmbH				AS42596
1021	freenet Datenkommunikations GmbH			X	AS5430
1022	Tracity Inc.			X	AS27908
1023	Ikoula Net SAS			X	AS21409
1024	VESTITEL BG			X	AS39505
1025	ETL Company Limited			X	AS10226
1026	Velocity Networks, Inc.				AS8018
1027	ACCELERATED DATA WORKS, INC.				AS7453
1028	BNW TECHNOLOGY LTD			X	AS34442
1029	Nitronet Sp. z o.o.				AS39310



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1215	SQIN			
1216	Netco. A. nris ad	ORATION	X	AS69923
1216	by hincobal...resingit, it's...ezimring		X	AS32892
1213	Wes. Nye...S...		X	AS39486
1220	ig Solutions AG		^	ASE379
1220	Working Solutions AG		X	AS33242
1223	WNC. J. UN ITA		X	AS402724
1222	ises, Inc.			AS5505
1222	Enterprises, inc.			AS4052
1223			X	AS3162
1225			X	AS4477
1223			X	AS57323
1226				AS205622
1226			X	AS54080
1227			X	AS34102
1232				AS39305
1232				AS41255
1233			X	AS19252
1233			X	AS31812
1234			X	AS376328
1235			X	AS477506
1236				AS72356
1223				AS17344
1228				AS191358
1243			X	AS196121
1242			X	AS196121
1241			X	AS75537
1242			X	AS28436
1244			X	AS355580
1243			X	AS48334
1245				AS85888
1246			X	AS49631
1213			X	AS32226
1213			X	AS12121
1202			X	AS12121
1252			^	AS50317
1251				AS55151
1253				AS571238



2072	Informatsionniy Systemy i Tekhnologii JSC.			AS6282
2073	Fiber Optical Network LLC			AS39869
2074	NETASSIST LLC		X	AS29503
2075	JSC Ratmir-ADS			AS394382
2076	Elevated Computing LLC			AS32334
2077	CloudCall Inc		X	AS49915
2078	Megaport (UK) Limited		X	AS207161
2079	Nagravision SA		X	AS42567
2080	MOJOHOST B.V.		X	AS24202
2081	PT. PASIFIKTEL INDOTAMA		X	AS23154
2082	Sanmina-SCI Corporation			AS202276
2083	IBOSS, INC		X	AS54801
2084	Zillion Network Inc.			AS50239
2085	SOFTNET TELEKOM BIELINSKA sp.j.			AS40785
2086	Omniva LLC		X	AS27347
2087	Datapro Telecom Solutions LLC			AS13280
2088	Three Ireland (Hutchison) limited			AS150347
2089	Planisware Singapore Pte. Ltd			AS264850
2090	TODAS LAS REDES SA		X	AS50319
2091	Dustin NL B.V.			AS59584
2092	INDIKOM LLC		X	AS210015
2093	Interface Services LLC		X	AS20886
2094	bn:t Blatzheim Networks Telecom GmbH		X	AS43502
2095	OOO Torgovij Dom EPK			AS211406
2096	CLOUD PROVIDER LLC			AS51822
2097	SOPREMA SAS			AS56805
2098	Global Technology & Sports Ltd			AS39227
2099	Corpex Internet GmbH			AS394646
2100	Eagle Eye Networks, Inc			AS48851
2101	Radware Ltd		X	AS39783
2102	Webhuset AS		X	AS198216
2103	horizon teleports GmbH			AS212804
2104	Open Infra ISP Production International AB		X	AS11377
2105	SendGrid, Inc.			AS203226
2106	Greenfiber Internet & Dienste GmbH		X	AS398535
2107	Identidad Telecom			AS205627
2108	Daimler Truck AG		X	AS21040
2109	Datapark AG		X	AS36218
2110	WHG Hosting Services Ltd			

2108	Daimler Truck A			
2109	Datapark AG			
2110	WHG Hosting Services Ltd			AS36218
2111	Stephan Rakowski, trading as CSN Solutions e.K.		X	AS212341
2112	Zeofast Network		X	AS10111
2113	DomoLAN Ltd.		X	AS49368
2114	CATO NETWORKS LTD			AS13150
2115	GULFSATCOMMUNICATIONS COMPANY K.S.C.		X	AS25122
2116	Metsaliitto Osuuskunta			AS201991
2117	Cisco OpenDNS, LLC		X	AS36692
2118	CloudNX		X	AS139648
2119	EVault INCORPORATED		X	AS33459
2120	Electronic Arts Limited			AS207602
2121	Atlantic LLC.		X	AS204600
2122	Edge Technology Plus d.o.o. Beograd		X	AS208398
2123	Vitrifi Limited		X	AS211393
2124	Treadstone Business Development S.R.L.			AS210878
2125	LinkedIn Corporation		X	AS13443
2126	Smarsh Inc			AS32546
2127	Red Bee Media B.V.			AS200587
2128	Wantech AB		X	AS39648
2129	trivago N.V.		X	AS198018
2130	702 Communications		X	AS15267
2131	Wanstor Ltd		X	AS2589
2132	InTouch Health		X	AS395355
2133	SNCF Connect & Tech Services SASU			AS205555
2134	SOUTH DAKOTA NETWORK		X	AS393417
2135	HOSTERION SRL		X	AS43927
2136	BAM Broadband Opco, LLC		X	AS20303
2137	OOO Scientific-Production Enterprise Edma			AS48036
2138	LF.net Netzwerksysteme GmbH		X	AS12374
2139	INNOVA SOLUTIONS S.A. DE C.V.			AS269960
2140	MorePeering		X	AS399794
2141	APNIC ASN block			AS136744
2142	United Cooperative Services		X	AS1448
2143	Game-Hosting GH AB			AS198347
2144	Edgecast Inc.		X	AS14210
2145	Denis Dmitrievich Galyamin			AS204576
2146	Citytelcom LLC		X	AS28762
2147	NuCDN LLC		X	AS23393



2142	United Cooper	AS14210	
2143	Game-Hosting G	AS13034	
2144	Edgecast Inc.	AS14210	X
2145	Denis Dmitrievich Galyamin	AS204576	
2146	Citytelecom LLC	AS28762	X
2147	NuCDN LLC	AS23393	X
2148	L3 NETWORKS INC	AS22687	
2149	Dynascale Inc.	AS397805	
2150	Ewart Technologies, Inc.	AS20388	
2151	CoreWeave, Inc	AS33425	
2152	JS Company Compnet	AS24680	
2153	B2B2C Inc	AS16532	X
2154	Finalto A/S	AS197190	X
2155	CZ.NIC, z.s.p.o.	AS200070	X
2156	Xserver Inc.	AS131965	X
2157	Lemuria Communications Inc.	AS7366	
2158	Ori Industries 1 Limited	AS50489	X
2159	ITB Sp. z o.o.	AS59782	
2160	LTech Solutions, Ltd.	AS39937	X
2161	PRONSS	AS22006	
2162	Currenta GmbH & Co. OHG	AS200768	X
2163	Sangoma US Inc.	AS16795	
2164	Citytelecom LLC	AS204035	
2165	San Francisco Metropolitan Internet Exchange (SFMIX)	AS12276	X
2166	APNIC ASN block	AS7589	
2167	Telefonaktiebolaget L M Ericsson	AS28852	X
2168	PixelRiver	AS36591	
2169	Nvidia Corporation	AS11414	X
2170	Bitrise	AS36480	
2171	Jack Fillan	AS207080	X
2172	Aruba S.p.A.	AS205727	X
2173	MidSouth Fiber	AS398203	X
2174	Backbone Solutions AG	AS13250	X
2175	TORNADO TELECOM S.R.L.	AS49964	
2176	Eonix Corporation	AS62904	
2177	noris network AG	AS8222	
2178	DeepL SE	AS60550	X
2179	Prime creation events SAS	AS211733	X
2180	WEBO LLC	AS200430	



2176	Eonix Corporat	November 5, 2024 10:08 PM			AS62900
2177	noris network AG				AS8222
2178	DeepL SE			X	AS60550
2179	Prime creation events SAS			X	AS211733
2180	WEBO LLC				AS200430
2181	Providus d.o.o.			X	AS43191
2182	ThreatSpike Labs Limited				AS211058
2183	Booking.com BV			X	AS202196
2184	ADVANCED SCHEMA SAS				AS205306
2185	UnitedLayer, LLC			X	AS399814
2186	Energie AG Oberoesterreich Services und Digital Solutions GmbH			X	AS56672
2187	ITAF BVBA			X	AS49285
2188	PubMatic, Inc.				AS62713
2189	link-lab GbR Schmidt Waehlich			X	AS51224
2190	Optimizely AB			X	AS30811
2191	Internet Cafe uslugi informatyczne Miroslaw Backiel				AS35787
2192	Vexus Fiber				AS11943
2193	iBasis, Inc.			X	AS11889
2194	C.S.T. Ltd.			X	AS62429
2195	PricewaterhouseCoopers GmbH WPG			X	AS50061
2196	Soluciones Favorables			X	AS263821
2197	Taiwan Telecom				AS38047
2198	Sattarov Albert Ildusovich				AS39805
2199	KMTelecom				AS32264
2200	North Texas Fiber, Inc			X	AS397161
2201	Free Range Internet LLC				AS400142
2202	SOLAREEDGE TECHNOLOGIES LTD.				AS205303
2203	Evalse, LLC			X	AS40916
2204	Arelion Sweden AB				AS8837
2205	Powerhouse Management, Inc.				AS22363
2206	Filippov Aleksei Vladilenovich				AS60098
2207	Invesco Group Services, Inc.			X	AS14630
2208	Excedo Networks AB			X	AS199150
2209	WICOM TELEFONICA S DE R.L.				AS264819
2210	BASIS LLC			X	AS206767
2211	dhosting.pl Sp. z o.o.				AS48896
2212	Freewheel Media Inc.			X	AS26558
2213	FINALTO TRADING LIMITED				AS202176
2214	MEGA Cloud Services Limited			X	AS205809
2215	ROLORE Networks AG				AS197053

2209	WICOM TELE		X	AS20676
2210	BASIS LLC			AS48896
2211	dhosting.pl Sp. z o.o.			AS26558
2212	Freewheel Media Inc.		X	AS202176
2213	FINALTO TRADING LIMITED			AS205809
2214	MEGA Cloud Services Limited		X	AS197653
2215	KOESIO Networks SAS			AS394625
2216	WhiteLabel IT Solutions Corp		X	AS202870
2217	Dimensione S.r.l.		X	AS12778
2218	MEGA M, d.o.o.		X	AS209167
2219	TERACOM COMMUNICATIONS (PTY) LTD			AS198781
2220	Connect Managed Services (UK) Limited			AS396106
2221	Consolidated Smart Systems LLC		X	AS52449
2222	My Tech BZ			AS31319
2223	ESTRACOM SPA		X	AS199336
2224	Adam Ryszewski trading as AR-NET			AS47195
2225	Gameforge 4D GmbH		X	AS50889
2226	NVIDIA Ltd			AS39771
2227	Renault Trucks SAS			AS203055
2228	Datacenter Luxembourg S.A.		X	AS36137
2229	PEG TECH INC			AS16582
2230	NEXT LEVEL INTERNET, INC.			AS199421
2231	MTI Teleport Muenchen GmbH Gesellschaft fur Satellitenubertragungen		X	AS43372
2232	TELNAP TELECOM Sp. z o.o.			AS205475
2233	Luke Eiji Granger-Brown		X	AS18859
2234	GVEC.net, LLC		X	AS203752
2235	E-CAPS D.O.O		X	AS50822
2236	LLC Ostankino Telecom			AS24723
2237	Atman Sp. z o.o.		X	AS38090
2238	pearlabyss			AS197865
2239	Luxembourg House of Cybersecurity		X	AS394923
2240	Artfiles LLC		X	AS149813
2241	LightEdge Solutions LLC			AS201085
2242	ANTEMETA SAS		X	AS203532
2243	Thales Cloud Securise SAS		X	AS23316
2244	Bel Air Internet, LLC			AS35793
2245	Acronis International GmbH		X	AS197156
2246	Petit Telecom B.V.			AS2687



2272	MAGIT'ST SRI	November 5, 2024 10:08 PM			49466
2273	FullSpace Ltd.			X	AS201499
2274	Gigacable de Aguascalientes, S.A. de C.V.				AS28376
2275	Encompass Digital Media, Inc.				AS7138
2276	Teracom AB				AS49769
2277	iboss,inc			X	AS396253
2278	ShowJet OOO				AS204271
2279	BitPoint AG				AS20791
2280	Association of financial market participants Nonprofit Partnership for the Development of Financial Market RTS				AS6694
2281	DigiCert, Inc.				AS32575
2282	Elna Paulette Lafortune trading as INNETRA PC			X	AS58349
2283	Broadcasting Center Europe (an RTL Group Company)			X	AS25273
2284	pronexon GmbH			X	AS21080
2285	Altima Telecom				AS22423
2286	Canonical Group Limited			X	AS41231
2287	Invision Technologies, LLC				AS54228
2288	VR Telecom SL				AS57337
2289	Krystal Hosting Ltd			X	AS12488
2290	Weebly, Inc.			X	AS27647
2291	in2ip B.V.			X	AS34141
2292	Bezeq- THE ISRAEL TELECOMMUNICATION CORP. LTD.			X	AS6810
2293	Khimki-SMI JSC				AS201477
2294	CBlue SPRL			X	AS197690
2295	9505-9150 Quebec Inc.				AS400914
2296	Leonet Group GmbH			X	AS197524
2297	Axatel LLC				AS208992
2298	NorthC Deutschland GmbH			X	AS15598
2299	TrackMotors LLC				AS207874
2300	Digital Transformation Plus LLC			X	AS60476
2301	Adjust GmbH			X	AS205184
2302	Anaplan, Inc.				AS26114
2303	Campus, Hofnetz & Events GmbH			X	AS50324
2304	Jakala S.P.A.				AS204685
2305	Kering SA				AS207396
2306	STELLAR Broadband			X	AS10423
2307	Virtuozzo International GmbH				AS212374
2308	MobileOne Ltd. Mobile/Internet Service Provider Singapore			X	AS4773
2309	Castle Point Technologies, Inc				AS399560
2310	Velocihost Inc			X	AS63452
2311	Headlands Technologies LLC				AS335151



2336	Orange Busine	November 5, 2024		
2337	Darktel llc	10:08 PM		
2338	SOL Holdings Limited			AS203316
2339	Alarislabs Pte Ltd			AS202430
2340	GMCHOSTING LLC			AS19186
2341	Pulsepoint Inc			AS19189
2342	WiMore S.r.l.			AS203489
2343	Rumble USA Inc.		X	AS399647
2344	Zone Media OU		X	AS49604
2345	Videnca AB			AS42622
2346	VOIP-UN LIMITED		X	AS42004
2347	MIFFLIN COUNTY WIRELESS LLC		X	AS11059
2348	Qwilt Inc.		X	AS20253
2349	iGamingCloud Limited			AS203221
2350	Marlink AS			AS8841
2351	Akamai International B.V.		X	AS31108
2352	Xvid Services OU			AS12293
2353	Tarr Kft.		X	AS8462
2354	Redder Telco s.r.l.			AS33986
2355	P.A.K.T LLC		X	AS39087
2356	TOV 'ProFIX Company'			AS43017
2357	MiaTel LLC			AS47613
2358	dinCloud Inc.		X	AS53834
2359	BOLIGNET-AARHUS F.M.B.A.			AS33796
2360	Opticom Group AO			AS49106
2361	Clearstream Technology ltd		X	AS59455
2362	MM Internet, Inc.			AS12028
2363	JSC Multiregional Transitelecom			AS49476
2364	Zoom Video Communications, Inc		X	AS30103
2365	Evocative, Inc.		X	AS18672
2366	Cloud Temple SAS			AS33930
2367	Paradise Networks LLC			AS40861
2368	Richie Ltd		X	AS60354
2369	PRO-PING d.o.o.			AS62161
2370	CHARLES CATV SYSTEMS INC			AS138987
2371	Indigo Integrated Solutions Limited		X	AS44205
2372	Consensus One Sp. z o.o.			AS56540
2373	Citytelecom LLC			AS204041
2374	SIA Home TV Pro			AS9029
2375	Okay Telecom Ltd		X	AS199665
2376	Intercom Communications		X	AS19751

2240	Artiles LLC			
2241	LightEdge Solu			
2242	ANTEMETA SAS		X	AS201084
2243	Thales Cloud Securise SAS		X	AS203532
2244	Bel Air Internet, LLC			AS23316
2245	Acronis International GmbH		X	AS35793
2246	Petit Telecom B.V.			AS197156
2247	AT&T Corp.			AS2687
2248	TOURLINK ORGANIZATION LLP			AS57586
2249	Beijing Xiaoju Science and Technology Co., Ltd.			AS63648
2250	team.blue Denmark A/S		X	AS43220
2251	Binero AB			AS60376
2252	NatCoWeb Corp.		X	AS46636
2253	i2 Technologies Inc.			AS14343
2254	Feral.io Ltd			AS200052
2255	Lite-Telecom Limited			AS49863
2256	LYCATEL DISTRIBUTION UK LIMITED			AS31404
2257	Rakuten Inc		X	AS54058
2258	Beeks Financial Cloud Ltd			AS206690
2259	Webinvest Plus LLC			AS205692
2260	TFM NETWORKS LIMITED			AS34790
2261	IPIPE International, Corp.		X	AS400513
2262	Electronic Arts Limited			AS206800
2263	Keepit A/S		X	AS9120
2264	Radoslaw Walentowski trading as Timplus B.Dudek R.Walentowski sp.j.			AS50349
2265	TEDRA GLOBAL SOLUTIONS S.L.		X	AS60917
2266	FairNetz GmbH			AS202046
2267	Ivstar Ltd		X	AS29588
2268	TELFAX COMMUNICATIONS SARL		X	AS209255
2269	BankOnIT, L.L.C.		X	AS46416
2270	NTT DATA Business Solutions sp. z o.o.			AS24740
2271	LINKINTEL Ltd.			AS47655
2272	MAGIT'ST SRL			AS49468
2273	FullSpace Ltd.		X	AS201495
2274	Gigacable de Aguascalientes, S.A. de C.V.			AS28376
2275	Encompass Digital Media, Inc.			AS7138
2276	Teracom AB			AS49769
2277	iboss,inc		X	AS396253
2278	ShowJet OOO			AS204271



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2370	CHARLES CAT			AS138507
2371	Indigo Integrated Solutions Limited			AS44201
2372	Consensus One Sp. z o.o.			AS56540
2373	Citytelecom LLC			AS20404
2374	SIA HomeTV Pro			AS9029
2375	Okay-Telecom Ltd.		X	AS199665
2376	Endeavor Communications		X	AS19751
2377	Delovaya Svyaz Ltd.			AS47968
2378	Stardoll AB			AS47287
2379	Vermont-IT Limited Liability Company			AS43667
2380	Base IP B.V.		X	AS34305
2381	Bletchley Networks Limited			AS199716
2382	Proofpoint, Inc.		X	AS22843
2383	CompuSOURCE Communications Corp.			AS26938
2384	Hi3G Access AB		X	AS44034
2385	OXIO			AS400424
2386	Altagen JSC			AS50473
2387	TELECOM HOLDING 3 AS			AS35157
2388	Federal State Unitary Enterprise "Morsviazputnik"			AS197965
2389	Kering Eyewear S.p.A.		X	AS202617
2390	Irontrust Networks		X	AS7775
2391	SANEF SA			AS34809
2392	Metaverse Limited.		X	AS54994
2393	Ansible Networks, LLC		X	AS14570
2394	Swishmail		X	AS14469
2395	Bloomberg, LP			AS10361
2396	Virtual Station LLC			AS198085
2397	NCI Genomics SRL			AS203305
2398	Bank of America, National Association			AS19886
2399	Taboola.com Ltd		X	AS200475
2400	WNB A/S		X	AS207934
2401	Barra International, LLC			AS1311
2402	Konica Minolta Business Solutions Europe GmbH			AS205287
2403	MY.COM US, INC.			AS393506
2404	Data Target d.o.o.			AS62294
2405	Leaseweb USA, Inc.		X	AS394380
2406	M-REAL NET Ltd.			AS31029
2407	LLC OTT UKRAINE			AS204384
2408	NTC ASIA LIMITED		X	AS135273
2409	KOMPaaS.tech Kft		X	AS59949



2304	Jakala S.P.A.			
2305	Kering SA			
2306	STELLAR Broadband		X	AS10423
2307	Virtuozzo International GmbH			AS212374
2308	MobileOne Ltd. Mobile/Internet Service Provider Singapore		X	AS4773
2309	Castle Point Technologies, Inc			AS399560
2310	Velocihost Inc.		X	AS63452
2311	Headlands Technologies LLC			AS395151
2312	DRD Communications Limited			AS34967
2313	Joint Stock Company Rosgeologia			AS57996
2314	Peoplefone AG			AS205676
2315	Telegram Messenger Inc		X	AS59930
2316	RhythmOne, LLC		X	AS26120
2317	Privredno drustvo za trgovinu i usluge STEPANOVIC & SIPKA			AS210135
2318	Crowsnest IT Support LLC			AS397606
2319	TMTG			AS954
2320	Lime HD LLC		X	AS47481
2321	Suomi Communications Oy		X	AS206364
2322	Telia Cygate AB		X	AS197308
2323	H & M Hennes & Mauritz GBC AB			AS30821
2324	Clearly Communications		X	AS27400
2325	Semplify Srl			AS199325
2326	Jack Henry & Associates, Inc.			AS14010
2327	Keepit A/S		X	AS211633
2328	Stiegeler Internet Service GmbH		X	AS200924
2329	Pudu, LLC		X	AS47689
2330	METRO Digital GmbH		X	AS39290
2331	The Cloud Networks Germany GmbH			AS42390
2332	Intelcom Group Ltd			AS201118
2333	VoIP Tech, LLC			AS40890
2334	Hagloef & Nordkvist Internet AB			AS34133
2335	OJSC Kostroma Municipal Telephone Network			AS44507
2336	Orange Business Digital Sweden AB		X	AS8523
2337	Darktel llc			AS210447
2338	SOL Holdings Limited			AS203316
2339	Alarislabs Pte Ltd			AS202430
2340	GMCHOSTING LLC			AS19186
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2342	Wimero GmbH			AS203485
2343	Rumble USA Inc.		X	AS399647





2403	MY.COM US, I	November 5, 2024 10:08 PM			AS62294
2404	Data Target d.o.o.				AS394386
2405	Leaseweb USA, Inc.			X	AS31029
2406	M-REAL NET Ltd.				AS204384
2407	LLC OTT UKRAINE				AS135273
2408	NTC ASIA LIMITED			X	AS59949
2409	KOMPaaS.tech Kft			X	AS209576
2410	Svea Internet AB			X	AS200573
2411	NEXET Sp. z o.o.				AS398772
2412	Fiber Optical Network LLC				AS59905
2413	NTH AG				AS30761
2414	Interpol				AS39684
2415	OOO Mango Telecom				AS22135
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2417	NEGU				AS21958
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2419	Vexus Fiber				AS47181
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2421	Managed Network Solutions, Inc.				AS36408
2422	unified ASN for CDNetworks across the globe				AS34843
2423	Managing company Realty of Petersburg Ltd				AS36243
2424	BPS Networks			X	AS63399
2425	Dialpad, Inc.			X	AS59642
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2431	Swedish Space Corporation				AS30633
2432	Leaseweb USA, Inc.			X	AS58011
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2437	Electronic Arts Limited				AS13360
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2440	Mega Limited			X	AS14163
2441	Shearman & Sterling				AS25975

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2442	FriendFinder Networks Inc		X	AS25875
2443	Lambda			AS39809
2444	Grifonline S.r.l.		X	AS43942
2445	PT APLIKA DATA NUSANTARA		X	AS140421
2446	Disney Worldwide Services, Inc.		X	AS23344
2447	M-Tech Systems Ltd			AS203582
2448	Louis Vuitton Malletier SA			AS203554
2449	Rutgers, The State University		X	AS46
2450	Planisware SAS		X	AS205845
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2453	Adams CATV, Inc		X	AS14928
2454	Weblin Services Inc		X	AS29757
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2465	South Central Power Company		X	AS394611
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2467	EOS Technology Solutions GmbH			AS204061
2468	Proofpoint, Inc.		X	AS26211
2469	Euris Health Cloud SAS			AS12362
2470	Public Telecommunication Corporation		X	AS30873
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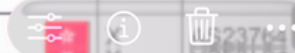
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November 5, 2024

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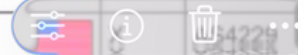


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30	Datacamp Limite		X	AS8220
31	Internet Initiative Japan Inc.		X	AS2497
32	Columbus Networks USA, Inc.		X	AS23520
33	Liberty Global B.V.		X	AS6830
34	Administracion Nacional de Telecomunicaciones		X	AS6057
35	PJSC MegaFon		X	AS31133
36	Singapore Telecommunications Ltd		X	AS7473
37	Comcast Cable Communications, LLC		X	AS7922
38	China Mobile International Limited		X	AS58453
39	Joint Stock Company TransTeleCom		X	AS20485
40	SEACOM Limited		X	AS37100
41	Verizon Business		X	AS701
42	Reliance Jio Infocomm Pte Ltd Singapore		X	AS64049
43	Vocus Connect International Backbone		X	AS4826
44	Sify Limited		X	AS9583
45	Broadband Hosting B.V.		X	AS24785
46	Turk Telekomunikasyon Anonim Sirketi		X	AS9121
47	Crown Castle Fiber LLC		X	AS46887
48	WIIT AG		X	AS24961
49	SoftBank Corp.		X	AS17676
50	PJSC Vimpelcom		X	AS3216
51	PT. Cyberindo Aditama		X	AS38158
52	Next Layer Telekommunikationsdienstleistungs- und Beratungs GmbH		X	AS1764
53	AT&T Services, Inc.		X	AS7018
54	SAMM TECNOLOGIA E TELECOMUNICACOES S.A		X	AS262585
55	atom86 BV		X	AS8455
56	Charter Communications Inc		X	AS7843
57	SH.cz s.r.o.		X	AS39392
58	FPT Telecom Company		X	AS18403
59	TM TECHNOLOGY SERVICES SDN BHD		X	AS4788
60	Indosat Singapore Pte. Ltd.		X	AS131219
61	Init7 (Switzerland) Ltd.		X	AS13030
62	GlobalConnect A/S		X	AS31027
63	GoCodeIT Inc		X	AS835
64	Superloop		X	AS38195
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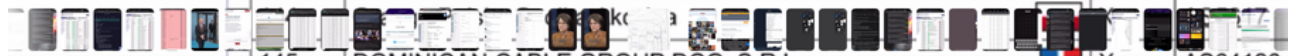
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72	GlobalConnect AB		X	AS12552
73	CHINA UNICOM China169 Backbone		X	AS4837
74	IELO-LIAZO SERVICES SAS		X	AS29075
75	The Communications Authority of Thailand(CAT)		X	AS4651
76	PT. Mega Akses Persada		X	AS136106
77	VIRTUA SYSTEMS SAS		X	AS35661
78	AIRE NETWORKS DEL MEDITERRANEO SL UNIPERSONAL		X	AS29119
79	ANEXIA Internetdienstleistungs GmbH		X	AS47147
80	INTERKVM HOST SRL		X	AS6204
81	Euroweb Romania S.R.L.		X	AS6663
82	EDGOO NETWORKS UNIPESOA LDA		X	AS6424
83	Windstream Communications LLC		X	AS7029
84	WholeSale Internet, Inc.		X	AS32097
85	KDDI CORPORATION		X	AS2516
86	TPG Telecom Limited		X	AS7545
87	Free Pro SAS		X	AS30781
88	Telenor Norge AS		X	AS2119
89	NCRYPTD NET LTD		X	AS34465
90	Fusix Networks B.V.		X	AS57866
91	Gigahost AS		X	AS56655
92	Slovak Telekom, a.s.		X	AS6855
93	Fiber Telecom S.p.A.		X	AS41327
94	Equinix (EMEA) Acquisition Enterprises B.V.		X	AS15830
95	Operbes, S.A. de C.V.		X	AS18734
96	Wave Broadband		X	AS11404
97	Telia Company AB		X	AS3301
98	meerfarbig GmbH & Co. KG		X	AS34549
99	1&1 Versatel Deutschland GmbH		X	AS8881
100	Eurotranstelecom Ltd		X	AS35320
101	NORDUnet		X	AS2603
102	PT. Saranainsan Mudaselaras		X	AS55655
103	A1 Telekom Austria AG		X	AS8447
104	xTom OU		X	AS3204
105	Shaw Communications Inc		X	AS6327
106	Zenlayer Inc		X	AS4229



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105	Shaw Commun			
106	Zenlayer Inc			
107	Saudi Telecom Company JSC		X	AS39386
108	VERIXI SA		X	AS6696
109	INETCOM CARRIER LLC		X	AS35598
110	EMIRATES TELECOMMUNICATIONS GROUP COMPANY (ETISALAT GROUP) PJSC		X	AS8966
111	Viettel Group		X	AS7552
112	LWLcom GmbH		X	AS50629
113	IX Reach Ltd		X	AS4455
114	Melbikomas UAB		X	AS56630
115	DIGI ROMANIA S.A.		X	AS8708
116	31173 Services AB		X	AS39351
117	Amazon.com, Inc.		X	AS16509
118	Bell Canada		X	AS577
119	Wholesail networks LLC		X	AS20055
120	Cox Communications Inc.		X	AS22773
121	HYEHOST LTD		X	AS47272
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123	APNIC ASN block		X	AS55850
124	Stowarzyszenie e-Poludnie		X	AS50607
125	Bezeq International Ltd.		X	AS8551
126	SWAN, a.s.		X	AS5578
127	HiNet Service Center in U.S.A		X	AS9680
128	HIVELOCITY, Inc.		X	AS29802
129	PRIVATE JOINT STOCK COMPANY DATAGROUP		X	AS3326
130	Unitas Global		X	AS1828
131	FNE-Finland Oy		X	AS47605
132	M-net Telekommunikations GmbH		X	AS8767
133	Akamai Technologies, Inc.		X	AS32787
134	Tele2 Sverige AB		X	AS1257
135	IP-Max SA		X	AS25091
136	BIGLOBE Inc.		X	AS2518
137	DMIT Cloud Services		X	AS906
138	PT Aplikasi Lintasarta		X	AS4800
139	RoyaleHosting BV		X	AS212477
140	Belgacom International Carrier Services SA		X	AS6774
141	FirstLight Fiber, Inc.		X	AS13536
142	British Telecommunications PLC		X	AS5400
143	SIA Tet		X	AS5518





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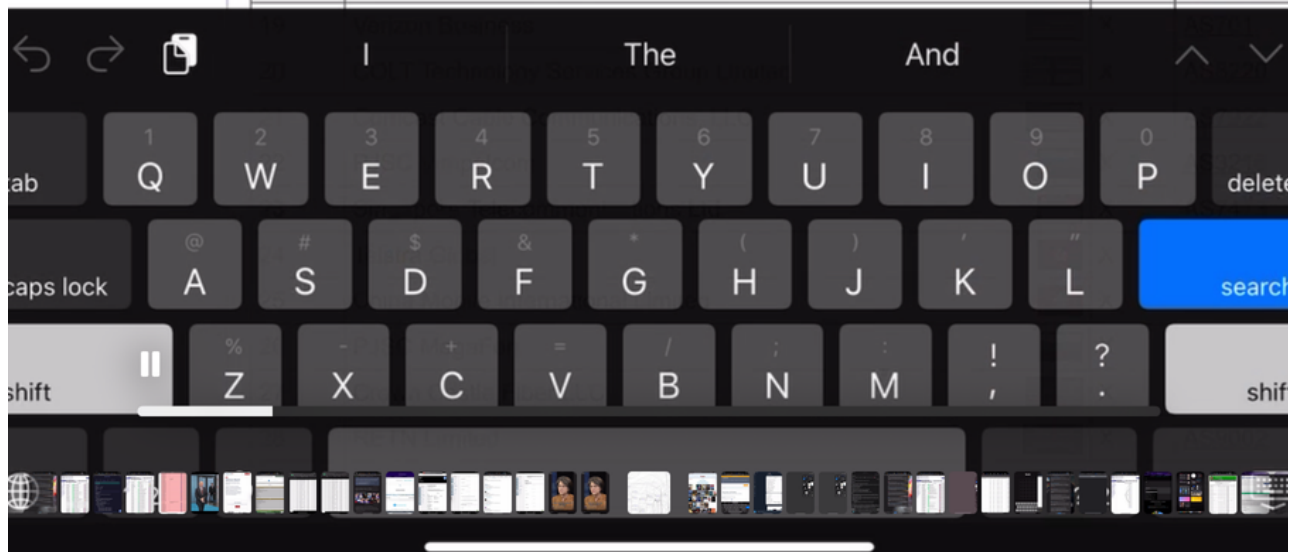
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Quick Links

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GP Peer Report
Super Traceroute
Super Looking Glass
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BGP Routes
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Multi Origin Routes
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Whois RDAP IRR IX Traceroute

Rank	Description	IPv6	Peer
1	Level 3 Parent, LLC	X	AS3356
2	Cogent Communications	X	AS174
3	Hurricane Electric LLC	X	AS6939
4	GTT Communications Inc.	X	AS3257
5	TATA COMMUNICATIONS (AMERICA) INC	X	AS6453
6	TELECOM ITALIA SPARKLE S.p.A.	X	AS6762
7	NTT America, Inc.	X	AS2914
8	BHARTI Airtel Ltd.	X	AS9498
9	Zayo Bandwidth	X	AS6461
10	Angola Cables	X	AS37468
11	GlobeNet Cabos Submarinos Colombia, S.A.S.	X	AS52320
12	PJSC Rostelecom	X	AS12389
13	PCCW Global, Inc.	X	AS3491
14	EDGEUNO S.A.S	X	AS7195
15	TELEFONICA GLOBAL SOLUTIONS SL	X	AS12956
16	Vodafone Group PLC	X	AS1273
17	Orange S.A.	X	AS5511
18	Joint Stock Company TransTeleCom	X	AS20485





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144	Orange Polska Spółka Akcyjna			X	AS5617
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146	Aussie Broadband			X	AS4764
147	ARTERIA Networks Corporation			X	AS2519
148	Anycast Global Backbone			X	AS58511
149	F5 Networks SARL			X	AS35280
150	Taiwan Internet Gateway			X	AS9505
151	UNINET			X	AS8151
152	Voxility LLP			X	AS3223
153	UPX US LLC			X	AS400282
154	Global-Gateway Internet			X	AS4648
155	StarHub Ltd			X	AS4657
156	Elisa Oyj			X	AS6667
157	Ote SA (Hellenic Telecommunications Organisation)			X	AS12713
158	Netwerkvereniging Coloclue			X	AS8283
159	True International Gateway Co., Ltd.			X	AS38082
160	Cellcom Fixed Line Communication L.P			X	AS1680
161	Telehouse EAD			X	AS57344
162	Philippine Long Distance Telephone Company			X	AS9299
163	Charter Communications			X	AS20115
164	M247 Europe SRL			X	AS9009
165	Bahnhof AB			X	AS8473
166	ISP Alliance a.s.			X	AS47232
167	SIA Tet			X	AS12578
168	Exatel S.A.			X	AS20804
169	Beanfield Technologies Inc.			X	AS21949
170	GLBB Japan KK			X	AS55900
171	MTS PJSC			X	AS8359
172	Quantcom, a.s.			X	AS29208
173	Pakistan Telecommunication Company Limited			X	AS17557
174	Orange Polska Spółka Akcyjna			X	AS29535
175	GLOBALCONNECT NO			X	AS2116
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177	O2 Czech Republic, a.s.			X	AS5610
178	SWITCH, LTD			X	AS23005
179	Feenix Communications Limited			X	AS135065
180	G-Core Labs S.A.			X	AS199524
181	Institute of Bioorganic Chemistry Polish Academy of Science, Poznan Supercomputing and Networking Center			X	AS13293





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179	Feenix Communications		X	AS13581
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182	TDC Holding A/S		X	AS3292
183	TowardEX Technologies International, Inc.		X	AS27552
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185	T-Mobile Polska S.A.		X	AS12912
186	Oath Holdings Inc.		X	AS10310
187	Telia Lietuva, AB		X	AS8764
188	OSNET Wireless		X	AS21559
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193	Zain Omantel International FZ-LLC		X	AS59605
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195	Futruy s.r.o.		X	AS42000
196	Uniti Fiber Holdings Inc.		X	AS13760
197	Retelit Digital Services S.p.A.		X	AS28716
198	EWE TEL GmbH		X	AS9145
199	Etihad Etisalat, a joint stock company		X	AS48237
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211	Telconet S.A		X	AS27947
212	Hydra Communications Ltd		X	AS25369
213	TIME dotCom Berhad No. 14, Jalan Majistret U1/26 Hicom Glenmarie Industrial Park 40150 Shah Alam Sel		X	AS9930
214	comtrance service GmbH		X	AS30962
215	T-2, d.o.o.		X	AS34779
216	Verizon Business		X	AS702



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216	Verizon Business		X	AS7342
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241	Spirit Communications		X	AS4766
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243	Krypt Technologies		X	AS49981
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248	Hetzner Online GmbH		X	AS680
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263	China Mobile International Limited		X	AS58807
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265	NTS workspace AG		X	AS15576
266	Federal State Institution Federal Scientific Research Institute for System Analysis of the Russian Academy of Sciences		X	AS3267
267	COMCEL GUATEMALA S.A.		X	AS262206
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269	SpainWISP, S.L.		X	AS8637
270	Telecom Operator & Internet Service Provider as well		X	AS17494
271	RCN		X	AS6079
272	Arcadiz Telecom NV		X	AS50309
273	Rackforest Zrt.		X	AS62214
274	Google LLC		X	AS15169
275	TierPoint, LLC		X	AS17378
276	GNC-Alfa CJSC		X	AS49800
277	Hrvatski Telekom d.d.		X	AS5391
278	Tamares Telecom Ltd		X	AS208905
279	ABACLOUD SAS		X	AS56987
280	MEO - SERVICOS DE COMUNICACOES E MULTIMEDIA S.A.		X	AS8657
281	Hive Data Center Inc.		X	AS33185
282	Mila hf		X	AS6677
283	oja.at GmbH		X	AS39912
284	xTom GmbH		X	AS3214
285	Real World - The Core		X	AS45437
286	Akamai International B.V.		X	AS20940
287	Midcontinent Communications		X	AS11232
288	firstcolo GmbH		X	AS44066
289	Odido Netherlands B.V.		X	AS50266
290	Network Platforms (PTY) LTD		X	AS328832
291	i3D.net B.V		X	AS49544
292	JMP Technology Services GmbH		X	AS61423
293	Horyzont Technologie Internetowe sp.z.o.o.		X	AS50606
294	ANEXIA Internetdienstleistungs GmbH		X	AS42473
295	US Internet Corp		X	AS10242
296	RADIOKOMUNIKACE a.s.		X	AS25248
297	Linknet-Exchange ASN		X	AS7632
298	Oracle Corporation		X	AS31898
299	Georgia Institute of Technology		X	AS10490
300	Airtek Solutions C.A.		X	AS61461
301	Optimum		X	AS19108
302	GEMNET LLC		X	AS45204
303	Kansas Fiber Network, LLC		X	AS13329
304	SHIFT HOSTING LLC		X	AS394177
305	Radware Ltd		X	AS198945





263	China Mobile Ir	November 5, 2024		
264	Suomi Communications Oy	10:08 PM		AS103024
265	NTS workspace AG		X	AS15576
266	Federal State Institution Federal Scientific Research Institute for System Analysis of the Russian Academy of Sciences		X	AS3267
267	COMCEL GUATEMALA S.A.		X	AS262206
268	NovoServe B.V.		X	AS24875
269	SpainWISP, S.L.		X	AS8637
270	Telecom Operator & Internet Service Provider as well		X	AS17494
271	RCN		X	AS6079
272	Arcadiz Telecom NV		X	AS50309
273	Rackforest Zrt.		X	AS62214
274	Google LLC		X	AS15169
275	TierPoint, LLC		X	AS17378
276	GNC-Alfa CJSC		X	AS49800
277	Hrvatski Telekom d.d.		X	AS5391
278	Tamara Telecom Ltd		X	AS208905
279	ABACLOUD SAS		X	AS56987
280	MEO - SERVICOS DE COMUNICACOES E MULTIMEDIA S.A.		X	AS8657
281	Hive Data Center Inc.		X	AS33185
282	Mila hf		X	AS6677
283	oja.at GmbH		X	AS39912
284	xTom GmbH		X	AS3214
285	Real World - The Core		X	AS45437
286	Akamai International B.V.		X	AS20940
287	Midcontinent Communications		X	AS11232
288	firstcolo GmbH		X	AS44066
289	Odido Netherlands B.V.		X	AS50266
290	Network Platforms (PTY) LTD		X	AS328832
291	i3D.net B.V		X	AS49544
292	JMP Technology Services GmbH		X	AS61423
293	Horyzont Technologie Internetowe sp.z.o.o.		X	AS50606
294	ANEXIA Internetdienstleistungs GmbH		X	AS42473
295	US Internet Corp		X	AS10242
296	RADIOKOMUNIKACE a.s.		X	AS25248
297	Linknet-Exchange ASN		X	AS7632
298	Oracle Corporation		X	AS31898
299	Georgia Institute of Technology		X	AS10490
300	Airtel Solutions S.A.		X	AS61461
301	Optimum		X	AS19108



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339	84 Grams AB		X	AS5763
340	IONOS SE		X	AS8560
341	VSHosting s.r.o.		X	AS43541
342	Tashi InfoComm Limited		X	AS38740
343	Bell Canada		X	AS855
344	ha-vel internet s.r.o.		X	AS15935
345	Ting Fiber Inc.		X	AS32133
346	Delta Telecom Ltd		X	AS29049
347	Indiana University		X	AS19782
348	Nova hf		X	AS44735
349	WIND TRE S.P.A.		X	AS1267
350	IENTC S DE RL DE CV		X	AS28458
351	Warian S.R.L.		X	AS56911
352	Cinia Oy		X	AS20904
353	Fluency Communications Ltd		X	AS56595
354	CD-Telematika a.s.		X	AS25512
355	TeraSwitch Networks Inc.		X	AS20326
356	TOT Public Company Limited		X	AS38040
357	Atman Sp. z o.o.		X	AS24724
358	Destiny N.V		X	AS8368
359	R-KOM Regensburger Telekommunikationsgesellschaft mbH		X	AS60169
360	GTS Telecom SRL		X	AS5606
361	noris network AG		X	AS12337
362	Limelight Networks, Inc.		X	AS22822
363	Verizon Business		X	AS2828
364	DTPNET NAP		X	AS18059
365	Fiberby ApS		X	AS42541
366	Proximus Luxembourg S.A.		X	AS56665
367	TELENOR LINX AS		X	AS15932
368	University Corporation for Atmospheric Research		X	AS14041
369	Stadtwerke Feldkirch		X	AS48362
370	Clouvider Limited		X	AS62240
371	Verizon Business		X	AS703
372	MTN SA		X	AS16637
373	Blackburn Technologies II, LLC		X	AS23379
374	MEGA M, d.o.o.		X	AS12778
375	NEAR IP, S.L.		X	AS49600
376	Hovos Consulting LLC			AS53597
377	DataBank Holdings, Ltd.		X	AS13767

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371	Verizon Business			
372	MTN SA			
373	Blackburn Technologies II, LLC		X	AS23379
374	MEGA M, d.o.o.		X	AS12778
375	NEAR IP, S.L.		X	AS49600
376	Hoyos Consulting LLC			AS53597
377	DataBank Holdings, Ltd.		X	AS13767
378	Fastweb SpA		X	AS12874
379	Metronet		X	AS30600
380	inexio Informationstechnologie und Telekommunikation Gmbh		X	AS8899
381	SEEWEB s.r.l.		X	AS12637
382	LITECOM AG		X	AS33965
383	Shenandoah Cable Television LLC		X	AS4922
384	Grande Communications Networks, LLC		X	AS7459
385	Tschajera Limited			AS209022
386	Hong Kong Broadband Network Ltd.		X	AS9269
387	Compaa Dominicana de Telfonos S. A.		X	AS6400
388	Ukrainian Telecommunication Group LLC		X	AS50581
389	2 connect a.s.		X	AS35236
390	Epsilon Telecommunications Ltd		X	AS44356
391	GAS&COM AG		X	AS47176
392	Mobifone Global JSC		X	AS45896
393	Iron Mountain Data Center		X	AS12025
394	OneCleveland		X	AS19009
395	INTERNET AG Global Network		X	AS8495
396	Merit Network Inc.		X	AS237
397	MobiCom Corporation		X	AS55805
398	NEOTEL DOO export-import Skopje		X	AS34772
399	LASOTEL SAS		X	AS39180
400	FiberX		X	AS6208
401	Rackspace Hosting		X	AS12200
402	Cityfibre Limited		X	AS8468
403	xTom Pty Ltd		X	AS8888
404	Unite Private Networks LLC.		X	AS15164
405	Virtual Technologies & Solutions		X	AS37721
406	NorthC Deutschland GmbH		X	AS15598
407	HighSpeed Office Limited		X	AS39326
408	Thuega SmartService GmbH		X	AS198726
409	Netwise Hosting Ltd		X	AS60800
410	SAREnet, S.A.		X	AS3262



305	Radware Ltd	November 5, 2024		
306	LeaseWeb Networks	10:08 PM		
307	VSE NET GmbH			X AS9063
308	23M GmbH			X AS47447
309	EastLink			X AS11260
310	GANDI SAS			X AS29169
311	TKRZ Stadtwerke GmbH			X AS42184
312	Syringa Networks, LLC			X AS15305
313	IPB Internet Provider in Berlin GmbH			X AS20647
314	Atman Sp. z o.o.			X AS15694
315	TELEKOM SRBIJA a.d.			X AS8400
316	Plus.line AG			X AS12306
317	JSC ER-Telecom Holding			X AS48858
318	University of Maryland			X AS10886
319	Dakota Carrier Network			X AS26794
320	APNIC ASN block			X AS137366
321	Zenlayer Inc			X AS21859
322	REVOLUTION PROVIDER SRL			X AS41720
323	Orange Romania S.A.			X AS8953
324	Emirates Integrated Telecommunications Company PJSC			X AS15802
325	DIL Technology Limited			X AS210021
326	MoeDove LLC			AS44324
327	NETSYST SAS			X AS209097
328	Bluebird Network			X AS62943
329	Aixit GmbH			X AS29551
330	Total Access Communication PLC.			X AS10089
331	BSE Software GmbH			X AS9044
332	Telco Pro Services, a. s.			X AS39791
333	Advania Island ehf			X AS30818
334	Unitas Global			X AS12182
335	AZERTELECOM LLC			X AS196925
336	Jump Networks Ltd			X AS8943
337	OMONIA d.o.o.			X AS44306
338	Alestra, S. de R.L. de C.V.			X AS11172
339	84 Grams AB			X AS57630
340	IONOS SE			X AS8560
341	VSHosting s.r.o.			X AS43541
342	Tashi InfoComm Limited			X AS38740
343	Bell Canada			X AS855
344	ba-vel internet s.r.o.			X AS15935
345	und rber inc.			X AS2133



407	HighSpeed Off		X	AS198720
408	Thuega SmartService Smart		X	AS60800
409	Netwise Hosting Ltd		X	AS3262
410	SAREnet, S.A.		X	AS5413
411	Daisy Corporate Services Trading Ltd		X	AS13768
412	Aptum Technologies		X	AS56382
413	vServer.site LTD		X	AS23404
414	Ritter Communications		X	AS12179
415	Unitas Global		X	AS45758
416	APNIC ASN block		X	AS31242
417	P4 Sp. z o.o.		X	AS15685
418	CASABLANCA INT a.s.		X	AS11019
419	HAProxy Technologies, Inc.		X	AS21430
420	WIA spol. s.r.o.		X	AS12859
421	BIT BV		X	AS29909
422	MetroOptic, Inc.		X	AS32425
423	Pixel Factory		X	AS8926
424	Moldtelecom SA		X	AS48635
425	CLDIN B.V.		X	AS271
426	BCNET		X	AS6697
427	Republican Unitary Telecommunication Enterprise Beltelecom		X	AS397423
428	Tier.Net Technologies LLC		X	AS35432
429	Cablenet Communication Systems plc		X	AS20676
430	Plusnet GmbH		X	AS13807
431	Great Plains Communications LLC		X	AS5539
432	SpaceNet AG		X	AS31477
433	Duocast B.V.		X	AS7992
434	Cogeco Connexion Inc.		X	AS63927
435	RISE		X	AS35706
436	Net at Once Sweden AB		X	AS2686
437	AT&T Corp.		X	AS20773
438	Host Europe GmbH		X	AS46450
439	Pilot Fiber, Inc.		X	AS9146
440	BH Telecom d.d. Sarajevo		X	AS13789
441	Unitas Global		X	AS35847
442	Ezee Fiber		X	AS34347
443	HALLAG Kommunal GmbH		X	AS56308
444	TELEKOMUNIKASI INDONESIA INTERNATIONAL, PTE.LTD		X	AS8896
445	GLOBALCONNECT AS		X	AS29517





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442	Ezee Fiber			
443	HALLAG Komr			
444	TELEKOMUNIKASI INDONESIA INTERNATIONAL, PTE.LTD		X	AS56308
445	GLOBALCONNECT AS		X	AS8896
446	Great Lakes Comnet, Inc.		X	AS30517
447	Hohl IT e.U.		X	AS40994
448	NHM - S.R.L.		X	AS62275
449	Telia Company AB		X	AS3308
450	Vox Telecom Ltd		X	AS11845
451	Hopkinsville Electric System		X	AS13781
452	Sentia Denmark A/S		X	AS47292
453	Netrouting B.V.		X	AS6206
454	Amito Ltd		X	AS60610
455	NTE TELEKOM AS		X	AS34087
456	Microsoft Corporation		X	AS8075
457	Accenture B. V.		X	AS8315
458	Steadfast		X	AS32748
459	Peninsula Fiber Network, LLC		X	AS46208
460	ERC Broadband		X	AS27446
461	Hot-Net internet services Ltd.		X	AS12849
462	INTERNET TELEFONIA Y TV DE MICHOACAN SA DE CV		X	AS28398
463	EX Networks Limited		X	AS35266
464	CETIN Ltd. Belgrade		X	AS15958
465	Unitas Global		X	AS14745
466	Hong Kong Beecloud System Technology Services Limited		X	AS140570
467	Vorboss Limited		X	AS25160
468	FiberLight, LLC		X	AS13876
469	WoodyNet, Inc.		X	AS42
470	Uzbektelekom Joint Stock Company		X	AS28910
471	DQE Communications LLC			AS33154
472	JSC Silknet		X	AS35805
473	Cyprus Telecommunications Authority		X	AS6866
474	ONEQCODE ASSETS PTY LTD		X	AS140627
475	MIRhosting B.V.		X	AS52000
476	Simply Transit Ltd		X	AS29550
477	Kansas Research and Education Network		X	AS2495
478	The Fusion Network, LLC		X	AS19754
479	MEVSPACE sp. z o.o.		X	AS201814
480	MULTISERVICE S.R.L.S			AS215664
481	Energie AG Oberoesterreich Services und Digital Solutions GmbH		X	AS49808
482	Netel Data Center GmbH		X	AS22551

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479	MEVSPACE Sp.			
480	MULTI SERVICE SRLS			
481	Energie AG Oberoesterreich Services und Digital Solutions GmbH		X	AS49808
482	Neutral Data Centers Corp.		X	AS33554
483	JCOM Co., Ltd.		X	AS9824
484	Infomaniak Network SA		X	AS29222
485	Noris-ITK GmbH		X	AS47526
486	Quickline AG		X	AS15600
487	Cofractal, Inc.		X	AS26073
488	MVM NET Zrt.		X	AS47169
489	VAS Latvijas Valsts radio un televizijas centrs		X	AS8194
490	ALWAYS ON SAS		X	AS50628
491	SOUTH DAKOTA NETWORK		X	AS13576
492	NEOCOMISP LIMITED, IPTX Transit and Network Service Provider in Cambodia.		X	AS9902
493	360NET C.A.		X	AS267805
494	GoDaddy.com, LLC		X	AS26496
495	HostHatch, LLC		X	AS63473
496	Sony Interactive Entertainment LLC		X	AS33353
497	Eircom Limited		X	AS5466
498	IP ServerOne Solutions Sdn Bhd		X	AS45352
499	The Municipal Communications Utility of the City of Cedar Falls, Iowa		X	AS13855
500	Unitas Global		X	AS10913
501	Localitel bvba		X	AS48408
502	COORDINADORA DE CARRIER'S, S.A. DE C.V.		X	AS19332
503	Rozint Ltd Co		X	AS21738
504	Telemach Hrvatska d.o.o.		X	AS34594
505	WiscNet		X	AS2381
506	Bredband2 AB		X	AS29518
507	Norlys Digital A/S		X	AS39642
508	VECTRA S.A.		X	AS29314
509	UK-2 Limited		X	AS13213
510	Korbank S. A.		X	AS35179
511	Accelecom		X	AS31877
512	Opteamax GmbH		X	AS48200
513	CZ.NIC, z.s.p.o.		X	AS25192
514	Nawork Internet Informationssysteme GmbH		X	AS9211
515	Quality Technology Services, LLC		X	AS17018
516	Wintek Corporation		X	AS11114





517	Beyond.pl sp. z o.o.		X	AS1228
518	Netassist Limited			AS1228
519	DSM (GB) Limited		X	AS48070
520	PRIVATE JOINT-STOCK COMPANY FARLEP-INVEST		X	AS12883
521	Vivacom Bulgaria EAD		X	AS8866
522	MOJOHOST		X	AS27589
523	Elisa Eesti AS			AS2586
524	Metro Communications Company, Inc.		X	AS53610
525	Citytelecom LLC			AS3175
526	ColoHouse LLC		X	AS47869
527	Consortium GARR		X	AS137
528	Global Communication Net Plc		X	AS12615
529	Teleservice Bredband Skane AB		X	AS34244
530	DATAKOM CARIBE, INC.		X	AS10396
531	Civilisation Information Technology, communication and internet services Co., LTD		X	AS211181
532	Aspire Technology Solutions Ltd		X	AS51043
533	Cyberlink AG		X	AS15623
534	TELECOMUNICACIONES DE GUATEMALA, SOCIEDAD ANONIMA		X	AS14754
535	wilhelm.tel GmbH		X	AS15943
536	Jisc Services Limited		X	AS786
537	XTRA TELECOM S.A.		X	AS15704
538	Vodafone Hungary Ltd.		X	AS21334
539	Global IP Networks INC		X	AS7819
540	Trusted Network GmbH		X	AS21385
541	University of Illinois		X	AS40387
542	Instituto Costarricense de Electricidad y Telecom.		X	AS11830
543	LightEdge Solutions		X	AS11320
544	ComSource s.r.o.		X	AS199803
545	RelAix Networks GmbH		X	AS34953
546	Invitech ICT Services Kft.		X	AS12301
547	ScaleUp Technologies GmbH & Co. KG		X	AS29014
548	PlusServer GmbH		X	AS61157
549	Art of Automation B.V.		X	AS60893
550	Omani Qatari Telecommunication Company SAOC		X	AS50010
551	Blackfoot Telephone Cooperative, Inc.		X	AS21947
552	KEVAG Telekom GmbH		X	AS12360
553	IQWeb FZ-LLC		X	AS59692
554	Unitas Global		X	AS30282



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517	Beyond.pl sp. z o.o.		X	AS31229
518	Netassist Limited			AS43426
519	DSM (GB) Limited		X	AS48070
520	PRIVATE JOINT-STOCK COMPANY FARLEP-INVEST		X	AS12883
521	Vivacom Bulgaria EAD		X	AS8866
522	MOJOHOST		X	AS27589
523	Elisa Eesti AS			AS2586
524	Metro Communications Company, Inc.		X	AS53610
525	Citytelecom LLC			AS3175
526	ColoHouse LLC		X	AS47869
527	Consortium GARR		X	AS137
528	Global Communication Net Plc		X	AS12615
529	Teleservice Bredband Skane AB		X	AS34244
530	DATA COM CARIBE, INC.		X	AS10396
531	Civilisation Information Technology, communication and internet services Co., LTD		X	AS211181
532	Aspire Technology Solutions Ltd		X	AS51043
533	Cyberlink AG		X	AS15623
534	TELECOMUNICACIONES DE GUATEMALA, SOCIEDAD ANONIMA		X	AS14754
535	wilhelm.tel GmbH		X	AS15943
536	Jisc Services Limited		X	AS786
537	XTRA TELECOM S.A.		X	AS15704
538	Vodafone Hungary Ltd.		X	AS21334
539	Global IP Networks INC		X	AS7819
540	Trusted Network GmbH		X	AS21385
541	University of Illinois		X	AS40387
542	Instituto Costarricense de Electricidad y Telecom.		X	AS11830
543	LightEdge Solutions		X	AS11320
544	ComSource s.r.o.		X	AS199803
545	RelAix Networks GmbH		X	AS34953
546	Invitech ICT Services Kft.		X	AS12301
547	ScaleUp Technologies GmbH & Co. KG		X	AS29014
548	PlusServer GmbH		X	AS61157
549	Art of Automation B.V.		X	AS60893
550	Omani Qatari Telecommunication Company SAOC		X	AS50010
551	Blackfoot Telephone Cooperative, Inc.		X	AS21947

550	Omani Qatari Telecommunication Company SAOC		X	AS50010
551	Blackfoot Telephone Cooperative, Inc.		X	AS21947
552	KEVAG Telekom GmbH		X	AS12360
553	IQWeb FZ-LLC		X	AS59692
554	Unitas Global		X	AS30282
555	Canal + Telecom SAS		X	AS21351
556	Giulio Lo Presti		X	AS34428
557	CDLAN SpA		X	AS20836
558	OCTOPUS WEB SOLUTION INC		X	AS984
559	doof.net		X	AS395823
560	MOBIFONE Corporation		X	AS131429
561	Texas Department of Information Resources		X	AS6922
562	Man-da.de GmbH		X	AS8365
563	Converge ICT Solutions Inc.		X	AS17639
564	Artfiles New Media GmbH		X	AS8893
565	Pacific Internet Pte Ltd		X	AS4628
566	BT Italia S.p.A.		X	AS8968
567	Free SAS		X	AS12322
568	Webzilla B.V.		X	AS35415
569	ecotel communication ag		X	AS12312
570	TOTAL PLAY TELECOMUNICACIONES SA DE CV		X	AS17072
571	ConnetU Ltd.		X	AS51945
572	LightStorm Services s.r.o.		X	AS42005
573	STACK EMEA - ITALY S.P.A.		X	AS203201
574	DHIVEHI RAAJJEYGE GULHUN PLC		X	AS7642
575	Opus Interactive		X	AS14380
576	dogado GmbH		X	AS8648
577	Micron21 Datacentre Pty Ltd		X	AS38880
578	Unitas Global		X	AS19024
579	AllPoints Fibre Limited		X	AS5482
580	NOVATEL EOOD		X	AS41313
581	Netnod AB		X	AS8674
582	University of Wisconsin System		X	AS3128
583	WhiteLabel IT Solutions Corp		X	AS394625
584	North-Schweiz AG		X	AS42346
585	ENTEKA Medianet GmbH		X	AS12897

613	Exponential E Ltd.		X	AS26100
614	Earthlink Telecommunications Equipment Trading & Services DMCC		X	AS60051
615	JSC Comcor		X	AS8732
616	Allo Communications LLC		X	AS15108
617	I.T.E.N.O.S. International Telecom Network Operation Services GmbH		X	AS50533
618	PODA a.s.		X	AS30764
619	Linkt SAS		X	AS44407
620	NextGenTel AS		X	AS15659
621	Unlimited Net, LLC		X	AS11990
622	OVEA SAS		X	AS29608
623	Infinity Telecom, s.r.o.		X	AS49121
624	Horyzont Technologie Internetowe sp.z.o.o.		X	AS20552
625	LANSOFT DATA SRL		X	AS31554
626	APNIC ASN block		X	AS23930
627	Limestone Networks, Inc.		X	AS46475
628	Haridus- ja Teadusministeerium		X	AS3221
629	M1 NET LTD		X	AS17547
630	LLC Smart Ape		X	AS56694
631	Netcalibre Ltd		X	AS25098
632	Internet Systems Consortium, Inc.		X	AS1280
633	Sony Network Communications Inc.		X	AS2527
634	MDS TELECOM C.A.		X	AS269832
635	FASTNET DATA INC		X	AS8796
636	Unitas Global		X	AS12180
637	VMWare, Inc.		X	AS53766
638	eTOP sp. z o.o.		X	AS20853
639	NJEDge.Net, Inc.		X	AS21976
640	NTT Global Data Centers EMEA GmbH		X	AS203325
641	CHINATELECOM CORE WAN CN2		X	AS4809
642	Megacable Comunicaciones de Mexico, S.A. de C.V.		X	AS14178
643	UNIDATA S.p.A.		X	AS5394
644	JSC RU-CENTER			AS5537
645	STARCLOUD GLOBAL LLC		X	AS140224
646	Razorblue Ltd		X	AS15692
647	LD Telecommunications, Inc.		X	AS32270
648	Therion Ltd		X	AS25614
649	IVER NORGE AS		X	AS57829

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583	WhiteLabel IT Solutions Corp		X	AS394625
584	NorthC Schweiz AG		X	AS42346
585	ENTEGA Medianet GmbH		X	AS12897
586	SaiGon Tourist cable Television Company		X	AS45543
587	Erdenreich Datentechnik GmbH		X	AS13247
588	INTAC Services GmbH		X	AS203759
589	Kyivstar PJSC		X	AS15895
590	COM-IN Telekommunikations GmbH		X	AS51402
591	OVH SAS		X	AS16276
592	Allegro sp. z o.o.		X	AS31621
593	Abissnet sh.a.		X	AS35047
594	PrJSC VF UKRAINE		X	AS21497
595	702 Communications		X	AS15267
596	Central Utah Telephone, Inc.		X	AS36103
597	Aruba S.p.A.		X	AS31034
598	Hofmeir Media GmbH		X	AS196922
599	synaforce GmbH		X	AS57395
600	University of Missouri - dba the Missouri Research and Education Network (MOREnet)		X	AS2572
601	Primetel PLC		X	AS8544
602	Albanian Telecommunications Union SH. P.K.		X	AS198279
603	University of Minnesota		X	AS57
604	BeotelNet-ISP d.o.o		X	AS6700
605	level66.network UG (haftungsbeschraenkt)		X	AS56381
606	eww ag		X	AS3330
607	S-IT Verwaltungs GmbH trading as S-IT Informationstechnologie Betreiber GmbH & Co. KG im Nordschwarzwald		X	AS39702
608	QuadraNet Enterprises LLC		X	AS8100
609	Oklahoma Network for Education Enrichment and		X	AS5078
610	Hrvatski Telekom d.d.		X	AS13046
611	PACKETFABRIC (UK) LTD		X	AS48910
612	Stowarzyszenie e-Poludnie		X	AS212261
613	Exponential-E Ltd.		X	AS25180
614	Earthlink Telecommunications Equipment Trading & Services DMCC		X	AS60051
615	JSC Comcor		X	AS8732
616	Allo Communications LLC		X	AS15108

647	LD Telecommunications, Inc.		X	AS32270
648	Therecom Ltd		X	AS35614
649	IVER NORGE AS		X	AS57829
650	Mediacom Communications Corp		X	AS30036
651	Monaco Telecom S.A.		X	AS6758
652	Facebook, Inc.		X	AS32934
653	Association Gitoyen		X	AS20766
654	Cologix, Inc		X	AS8001
655	ANTENNA HUNGARIA Magyar Musorszoro es Radiohirkozlesi Zartkoruen Mukodo Reszvenytarsasag		X	AS8990
656	Solcon Internetdiensten B.V.		X	AS12414
657	INEA sp. z o.o.		X	AS13110
658	Information System Authority		X	AS8240
659	Vodafone Idea Ltd		X	AS55410
660	WideOpenWest Finance LLC		X	AS12083
661	Cable Onda		X	AS18809
662	Opus Interactive		X	AS396936
663	OzarksGo, LLC		X	AS395662
664	JSC Ufanet		X	AS47775
665	MULTICABLE NETWORK LLC		X	AS54082
666	GLU TECHNOLOGIES, S.L.		X	AS202556
667	AMX Argentina S.A.		X	AS19037
668	xTom		X	AS6233
669	badenIT GmbH		X	AS13054
670	Cleura AB		X	AS42695
671	D-LAKE SAS		X	AS49028
672	Wieske's Crew GmbH		X	AS13135
673	Peace Communications LLC		X	AS20448
674	LinkBermuda LTD		X	AS11269
675	Armstrong		X	AS27364
676	htp GmbH		X	AS13045
677	HKH GmbH		X	AS12676
678	QuickPacket, LLC		X	AS46261
679	Rechenzentrum Hassfurt GmbH		X	AS44973
680	12651980 CANADA INC.		X	AS399486
681	WIN S.A.		X	AS9208

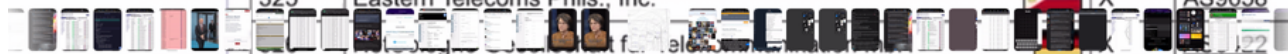
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678	QuickPacket, LLC		X	AS46261
679	Rechenzentrum Hassfurt GmbH		X	AS44973
680	12651980 CANADA INC.		X	AS399486
681	WIN S.A.		X	AS9208
682	Zayo Infrastructure France SA		X	AS8218
683	akquinet outsourcing gGmbH		X	AS35258
684	Redge Technologies sp. z o.o.		X	AS57811
685	eStruxture Data Centers Inc.		X	AS19122
686	SK Broadband Co Ltd		X	AS9318
687	PTI Pacifica Inc.		X	AS7131
688	Baylor College of Medicine		X	AS302
689	One.com A/S		X	AS51468
690	Hanoi Telecom Joint Stock Company - HCMC Branch		X	AS24088
691	SoftLayer Technologies Inc.		X	AS36351
692	Phibee Telecom SAS		X	AS8487
693	Telmex Colombia S.A.		X	AS14080
694	NIDIX NETWORKS S.A. DE C.V.		X	AS265627
695	ANS ACADEMY LIMITED		X	AS61323
696	LLC Orange Business Services		X	AS2854
697	regio[.NET] Holding GmbH		X	AS8804
698	PC Astra-net		X	AS49824
699	Gilat Telecom Ltd.		X	AS12491
700	Quality Technology Services, LLC		X	AS20141
701	Great Lakes Energy Connections Inc.		X	AS398143
702	Baffin Bay Networks AB		X	AS42649
703	freenet Datenkommunikations GmbH		X	AS5430
704	Lao Telecom Communication, LTC		X	AS9873
705	WebNX, Inc.		X	AS18450
706	Arizona Board of Regents		X	AS62600
707	SingNet		X	AS3758
708	Telx		X	AS36086
709	LinkedIn Corporation		X	AS14413
710	NebraskaLink		X	AS16851
711	LU-CIX Management GIE		X	AS208374
712	Rice University		X	AS4557
713	CEGECOM S.A.		X	AS15965



288	UPX US LLC	November 5, 2024			
289	EastLink	10:08 PM			
290	FloridaNet			X	AS11096
291	OMONIA d.o.o.			X	AS44306
292	RENAM Public Association				AS9199
293	SOUTH DAKOTA NETWORK			X	AS13576
294	JSC Ukrtelecom				AS6849
295	NOVATEL EOOD			X	AS41313
296	NovoServe B.V.			X	AS24875
297	Republican Unitary Telecommunication Enterprise Beltelecom			X	AS6697
298	Telia Norge AS			X	AS25400
299	Moldtelecom SA			X	AS8926
300	Kansas Fiber Network, LLC			X	AS13329
301	Great Plains Communications LLC			X	AS13807
302	NForce Entertainment B.V.				AS43350
303	Suomi Communications Oy			X	AS16302
304	Netassist Limited			X	AS29632
305	Earthlink Telecommunications Equipment Trading & Services DMCC			X	AS60051
306	IP ServerOne Solutions Sdn Bhd			X	AS45352
307	meerfarbig GmbH & Co. KG			X	AS34549
308	Pilot Fiber, Inc.			X	AS46450
309	Jisc Services Limited			X	AS786
310	Indosat Singapore Pte. Ltd.			X	AS131219
311	Texas Department of Information Resources			X	AS6922
312	Unitas Global			X	AS19024
313	eww ag			X	AS21013
314	Horyzont Technologie Internetowe sp.z.o.o.			X	AS50606
315	NEOCOMISP LIMITED, IPTX Transit and Network Service Provider in Cambodia.			X	AS9902
316	Virtual Technologies & Solutions			X	AS37721
317	NSI Hosting				AS14244
318	APNIC ASN block			X	AS45758
319	Packet Host, Inc.			X	AS54825
320	Alpheus Data Services, L.L.C.			X	AS25956
321	Unitas Global			X	AS12182
322	Civilisation Information Technology, communication and internet services Co., LTD			X	AS211181
323	University Corporation for Atmospheric Research			X	AS14041
324	SEMNET LLC			X	AS45204
325	Eastern Telecoms Phils., Inc.			X	AS9658





323	University Corporation for Atmospheric Research		X	AS1404
324	GEMNET LLC		X	AS45204
325	Eastern Telecoms Phils., Inc.		X	AS9658
326	NetCologne Gesellschaft für Telekommunikation mbH		X	AS8422
327	Korbank S. A.		X	AS35179
328	LUXNETWORK S.A.		X	AS29467
329	Eviny Digital AS		X	AS30950
330	NEAR IP, S.L.		X	AS49600
331	Bell Canada		X	AS855
332	Merit Network Inc.		X	AS237
333	Sri Lanka Telecom PLC, GLObal Peering		X	AS45489
334	GHOSTnet GmbH		X	AS12586
335	University of Maryland		X	AS10886
336	OCTOPUS WEB SOLUTION INC		X	AS984
337	Hrvatski Telekom d.d.		X	AS13046
338	Cyprus Telecommunications Authority		X	AS6866
339	Pixel Factory		X	AS32425
340	Ukrainian Telecommunication Group LLC		X	AS50581
341	Dakota Carrier Network		X	AS26794
342	Aptum Technologies		X	AS13768
343	CETIN Ltd. Belgrade		X	AS15958
344	TPx Communications		X	AS14265
345	Gigahost AS		X	AS56655
346	US Internet Corp		X	AS10242
347	LightEdge Solutions		X	AS11320
348	Blix Solutions AS		X	AS50304
349	PEG TECH INC			AS39882
350	TOT Public Company Limited		X	AS38040
351	PFALZKOM GmbH			AS21473
352	Belcloud LTD			AS44901
353	Hetzner Online GmbH		X	AS24940
354	i3D.net B.V		X	AS49544
355	WorldStream B.V.		X	AS49981
356	Ritter Communications		X	AS23404
357	CETIN a.s.		X	AS28725
358	Melbikomas UAB		X	AS56630
359	Arcadiz Telecom NV		X	AS50309
360	DATA.COM CARIBE INC		X	AS10396
361	Mobifone Global JSC		X	AS45896





360	DATAKOM CA		X	AS10393
361	Mobifone Global		X	AS10393
362	Nova hf		X	AS44735
363	NEXUSGUARD LIMITED		X	AS45474
364	WiscNet		X	AS2381
365	Airtek Solutions C.A.		X	AS61461
366	Indiana University		X	AS19782
367	Mila hf		X	AS6677
368	AVATEL TELECOM, SA		X	AS200845
369	INEA sp. z o.o.		X	AS13110
370	Accelecom		X	AS31877
371	Hong Kong Beecloud System Technology Services Limited		X	AS140570
372	TOTAL PLAY TELECOMUNICACIONES SA DE CV		X	AS17072
373	Real World - The Core		X	AS45437
374	Krypt Technologies		X	AS4213
375	Oath Holdings Inc.		X	AS10310
376	HostPapa			AS36352
377	MetroOptic, Inc.		X	AS29909
378	Unitas Global		X	AS12179
379	Blacknight Internet Solutions Limited		X	AS39122
380	ERC Broadband		X	AS27446
381	Cogeco Connexion Inc.		X	AS7992
382	noris network AG		X	AS12337
383	FiberLight, LLC		X	AS13876
384	NetCom BW GmbH		X	AS41998
385	DMIT Cloud Services		X	AS906
386	NTS workspace AG		X	AS15576
387	SpainWISP, S.L.		X	AS8637
388	Verein zur Foerderung eines Deutschen Forschungsnetzes e.V.		X	AS680
389	CABLE COLOR LLC		X	AS398947
390	IENTC S DE RL DE CV		X	AS28458
391	Filanco Ukraine Ltd.		X	AS57455
392	Nine Internet Solutions AG		X	AS29691
393	Hot-Net internet services Ltd.		X	AS12849
394	Rackspace Hosting		X	AS12200
395	RADIOKOMUNIKACE a.s.		X	AS25248
396	Netwerkvereniging Coloclue		X	AS8283
397	Quality Technology Services, LLC		X	AS20141
398	Vast Networks			AS54048
399	Blackburn Technologies II, LLC		X	AS23379
400	Grains AB		X	AS7630



398	Vast Networks		X	AS54000
399	Blackburn Technologies II, LLC		X	AS23379
400	84 Grams AB		X	AS57630
401	MobiCom Corporation		X	AS55805
402	Global Communication Net Plc		X	AS12615
403	Universitaet Stuttgart		X	AS553
404	China Mobile International Limited		X	AS58807
405	Odido Netherlands B.V.		X	AS50266
406	VSE NET GmbH		X	AS9063
407	VIRTUA SYSTEMS SAS		X	AS35661
408	StarNet Solutii SRL			AS31252
409	BT Italia S.p.A.		X	AS8968
410	Monaco Telecom S.A.		X	AS6758
411	Lyse Tele AS		X	AS29695
412	Ezee Fiber		X	AS35847
413	Nexthop AS		X	AS49788
414	Allo Communications LLC		X	AS15108
415	BGP Network Limited			AS64050
416	LeaseWeb Network B.V.		X	AS38930
417	Tamares Telecom Ltd		X	AS208905
418	Mediacom Communications Corp		X	AS30036
419	CHINATELECOM CORE WAN CN2		X	AS4809
420	Hive Data Center Inc.		X	AS33185
421	Horyzont Technologie Internetowe sp.z.o.o.		X	AS20552
422	LASOTEL SAS		X	AS39180
423	Futruy s.r.o.		X	AS42000
424	GLASFASER RUHR GmbH & Co. KG			AS12329
425	Plus.line AG		X	AS12306
426	Videotron Ltee		X	AS5769
427	TELECOMUNICACIONES DE GUATEMALA, SOCIEDAD ANONIMA		X	AS14754
428	CD-Telematika a.s.		X	AS25512
429	MVM NET Zrt.		X	AS47169
430	Total Access Communication PLC.		X	AS10089
431	Cablenet Communication Systems plc		X	AS35432
432	Fluency Communications Ltd		X	AS56595
433	Wobcom GmbH		X	AS9136
434	Georgia Institute of Technology		X	AS10490
435	NTS workspace AG		X	AS39040
436	FreeTel s.r.o.		X	AS8251
437	Daisy Corporate Services Trading Ltd		X	AS5413



435	NTS workspac		X	AS6451
436	FreeTel, s.r.o.		X	AS5413
437	Daisy Corporate Services Trading Ltd		X	AS21334
438	Vodafone Hungary Ltd.		X	AS12722
439	RECONN LLC			AS62214
440	Rackforest Zrt.		X	AS7342
441	VeriSign Infrastructure & Operations		X	AS20676
442	Plusnet GmbH		X	AS29405
443	VNET a.s.		X	AS15169
444	Google LLC		X	AS212261
445	Stowarzyszenie e-Poludnie		X	AS60610
446	Amito Ltd		X	AS9044
447	BSE Software GmbH		X	AS12083
448	WideOpenWest Finance LLC		X	AS49808
449	Energie AG Oberoesterreich Services und Digital Solutions GmbH		X	AS29551
450	Aixit GmbH		X	AS15570
451	PACKETFABRIC (UK) LTD			AS46208
452	Peninsula Fiber Network, LLC		X	AS15932
453	TELENOR LINX AS		X	AS271
454	BCNET		X	AS27947
455	Telconet S.A		X	AS62240
456	Clouvider Limited		X	AS31229
457	Beyond.pl sp. z o.o.		X	AS16347
458	ADISTA SAS		X	AS48362
459	Stadtwerke Feldkirch		X	AS12637
460	SEEWEB s.r.l.		X	AS9829
461	National Internet Backbone		X	AS8368
462	Destiny N.V		X	AS15133
463	Edgecast Inc.		X	AS35133
464	Eranium B.V.		X	AS18809
465	Cable Onda		X	AS21976
466	NJEDge.Net, Inc.		X	AS9824
467	JCOM Co., Ltd.		X	AS5466
468	Eircom Limited		X	AS17547
469	M1 NET LTD		X	AS47176
470	GAS&COM AG		X	AS12180
471	Unitas Global		X	AS32133
472	Ting Fiber Inc.		X	AS25144
473	Telekomunikacije Republike Srpske akcionarsko drustvo Banja Luka		X	



581	SaiGon Tourist		X	AS45543
582	Nawork Internet Informationssysteme GmbH		X	AS9211
583	UK-2 Limited		X	AS13213
584	HNTELCO S.A			AS26568
585	Unitas Global		X	AS14742
586	Megacable Comunicaciones de Mexico, S.A. de C.V.		X	AS14178
587	FiberX		X	AS6208
588	ONEQODE ASSETS PTY LTD		X	AS140627
589	Albanian Telecommunications Union SH. P.K.		X	AS198279
590	Steadfast		X	AS32748
591	Trusted Network GmbH		X	AS21385
592	Tier.Net Technologies LLC		X	AS397423
593	Falcore Investments Pty Ltd		X	AS148966
594	ecotel communication ag		X	AS12312
595	JSC Avantel		X	AS51178
596	Limestone Networks, Inc.		X	AS46475
597	Mada Al-Arab General Services Company		X	AS51407
598	Uniontel Ltd		X	AS48293
599	Telco Pro Services, a. s.		X	AS39791
600	Lao Telecom Communication, LTC		X	AS9873
601	ParadoxNetworks Limited		X	AS52025
602	Sentia Denmark A/S		X	AS47292
603	ALWAYS ON SAS		X	AS50628
604	Phonoscope, Inc.			AS22442
605	Makedonski Telekom AD-Skopje			AS6821
606	Quality Technology Services, LLC		X	AS394968
607	INTERSPACE DOOEL Skopje		X	AS200895
608	Host Europe GmbH		X	AS20773
609	FASTER CZ spol. s r.o.			AS24641
610	KIFU (Governmental Info Tech Development Agency)		X	AS1955
611	The Communications Authority of Thailand(CAT)		X	AS4651
612	FirstDigital Communications, LLC		X	AS13415
613	Daniel Jackson		X	AS212027
614	Services Industriels de Geneve		X	AS20932
615	Arizona Board of Regents		X	AS62600
616	BIT BV		X	AS12859
617	FORTEX CJSC		X	AS48166
618	JSC Selectel		X	AS50340
619	Baylor College of Medicine		X	AS302





509	Telemach Hrvatska		X	AS3458
510	xTom GmbH		X	AS3214
511	NorthC Schweiz AG		X	AS42346
512	Oracle Corporation		X	AS31898
513	R-KOM Regensburger Telekommunikationsgesellschaft mbH		X	AS60169
514	Tashi InfoComm Limited		X	AS38740
515	GANDI SAS		X	AS29169
516	HYEHOST LTD		X	AS47272
517	VAS Latvijas Valsts radio un televīzijas centrs		X	AS8194
518	Oxylion S. A.		X	AS58321
519	oja.at GmbH		X	AS39912
520	Bredband2 AB		X	AS29518
521	Društvo za telekomunikacije Orion telekom doo Beograd-Zemun			AS9125
522	Citytelecom LLC		X	AS29076
523	PC Astra-net		X	AS49824
524	Abissnet sh.a.		X	AS35047
525	31173 Services AB		X	AS39351
526	Mythic Beasts Ltd		X	AS44684
527	Biz Telecom LLC		X	AS197453
528	MBA DATACENTERS S.L.		X	AS43578
529	NETSTAR (SG) PTE. LTD.		X	AS10122
530	NSFOCUS, Inc.		X	AS8757
531	Central Utah Telephone, Inc.		X	AS36103
532	Jump Networks Ltd		X	AS8943
533	Square, Inc.		X	AS15211
534	Armstrong		X	AS27364
535	Cityfibre Limited		X	AS8468
536	Sonic Telecom LLC		X	AS46375
537	Aruba S.p.A.		X	AS31034
538	ComSource s.r.o.		X	AS199803
539	TeraSwitch Networks Inc.		X	AS20326
540	MIRhosting B.V.		X	AS52000
541	2 connect a.s.		X	AS35236
542	eTOP sp. z o.o.		X	AS20853
543	CONSORCIO DE TELECOMUNICACIONES AVANZADA S.A.		X	AS199434
544	Vorboss Limited		X	AS25160
545	Peace Communications LLC		X	AS20448
546	wawtel Sp. z o.o.			AS210104
547	GULFNET COMMUNICATIONS CO. WLL			AS3225





472	Ting Fiber Inc.		X	AS25144
473	Telekomunikacije Republike Srbije akcionarsko drustvo Banja Luka		X	AS13855
474	The Municipal Communications Utility of the City of Cedar Falls, Iowa		X	AS44066
475	firstcolo GmbH		X	AS13287
476	FALBOX S.L. trading as NIXVAL		X	AS20940
477	Akamai International B.V.		X	AS8001
478	Cologix, Inc		X	AS40065
479	CNSERVERS LLC		X	AS63927
480	RISE		X	AS3308
481	Telia Company AB		X	AS53610
482	Metro Communications Company, Inc.		X	AS56665
483	Proximus Luxembourg S.A.		X	AS14745
484	Unitas Global		X	AS44356
485	Epsilon Telecommunications Ltd		X	AS42649
486	Baffin Bay Networks AB		X	AS18059
487	DTPNET NAP		X	AS49289
488	Omegacom S.R.L.S.		X	AS8544
489	Primetel PLC		X	AS394177
490	SHIFT HOSTING LLC		X	AS27589
491	MOJOHOST		X	AS14103
492	ACD.net		X	AS30962
493	comtrance service GmbH		X	AS26496
494	GoDaddy.com, LLC		X	AS42473
495	ANEXIA Internetdienstleistungs GmbH		X	AS21277
496	Allay Nawroz Telecom Company for Communication/Ltd.		X	AS18351
497	PT Media Akses Global Indo, Internet Provider Jakarta		X	AS19429
498	ETB - Colombia		X	AS39642
499	Norlys Digital A/S		X	AS28509
500	Cablemas Telecomunicaciones SA de CV		X	AS5078
501	Oklahoma Network for Education Enrichment and		X	AS10913
502	Unitas Global		X	AS33965
503	LITECOM AG		X	AS137
504	Consortium GARR		X	AS15623
505	Cyberlink AG		X	AS36351
506	SoftLayer Technologies Inc.		X	AS20647
507	IPB Internet Provider in Berlin GmbH		X	AS16851
508	Nebraskalink		X	AS34594
509	Telemach Hrvatska d.o.o.		X	





544	Vorboss Limited			AS210104
545	Peace Commun.			AS3225
546	Wawtel Sp. z o.o.			AS56987
547	GULFNET COMMUNICATIONS CO. WLL			AS9146
548	ABACLOUD SAS		X	AS203201
549	BH Telecom d.d. Sarajevo		X	AS56308
550	STACK EMEA - ITALY S.P.A.		X	AS11269
551	TELEKOMUNIKASI INDONESIA INTERNATIONAL, PTE.LTD		X	AS8896
552	LinkBermuda LTD		X	AS20904
553	GLOBALCONNECT AS		X	AS21351
554	Cinia Oy		X	AS47957
555	Canal + Telecom SAS		X	AS20836
556	Worldline IGSA SA		X	AS42184
557	CDLAN SpA		X	AS24088
558	TKRZ Stadtwerke GmbH		X	AS28968
559	Hanoi Telecom Joint Stock Company - HCMC Branch		X	AS2495
560	JSC Evrasia Telecom Ru			AS11830
561	Kansas Research and Education Network		X	AS7819
562	Instituto Costarricense de Electricidad y Telecom.		X	AS35266
563	Global IP Networks INC		X	AS137831
564	EX Networks Limited		X	AS201814
565	SHOPEE SINGAPORE PRIVATE LIMITED		X	AS32270
566	MEVSPACE sp. z o.o.		X	AS13825
567	LD Telecommunications, Inc.		X	AS21947
568	Troy Cablevision, Inc.			AS136935
569	Blackfoot Telephone Cooperative, Inc.		X	AS9085
570	APNIC ASN block			AS6503
571	SUPERMEDIA Sp.z.o.o.		X	AS33554
572	Axtel, S.A.B. de C.V.		X	AS203325
573	Neutral Data Centers Corp.		X	AS395662
574	NTT Global Data Centers EMEA GmbH		X	AS43541
575	OzarksGo, LLC		X	AS34428
576	VSHosting s.r.o.		X	AS31477
577	Giulio Lo Presti		X	AS50923
578	Duocast B.V.		X	AS8560
579	Metroset Ltd.		X	AS45543
580	IONOS SE		X	AS9211
581	SaiGon Tourist cable Television Company		X	AS13213
582	Nawork Internet Informationssysteme GmbH		X	AS25568
583	UK-2 Limited		X	





653	WIA spol. s.r.o.	November 5, 2024		X	AS1430
654	Ryamer, LLC	10:08 PM		X	AS10000
655	eww ag			X	AS3330
656	Thuega SmartService GmbH			X	AS198726
657	RelAix Networks GmbH			X	AS34953
658	Bouygues Telecom SA			X	AS5410
659	ANTENNA HUNGARIA Magyar Musorszoro es Radiohirkozlesi Zartkoruen Mukodo Reszvenytarsasag			X	AS8990
660	Converge ICT Solutions Inc.			X	AS17639
661	MOBIFONE Corporation			X	AS131425
662	Therecom Ltd			X	AS35614
663	Broadband Visions, LLC			X	AS25615
664	ha-vel internet s.r.o.			X	AS15935
665	Advania Island ehf			X	AS30818
666	Quality Technology Services, LLC			X	AS53907
667	ANGKOR DATA COMMUNICATION				AS38235
668	WhiteSky Communications, LLC.			X	AS62887
669	CASABLANCA INT a.s.			X	AS15685
670	Sony Interactive Entertainment LLC			X	AS33353
671	Infomaniak Network SA			X	AS29222
672	EPIC Alliance, Inc.				AS27195
673	Master Internet s.r.o.			X	AS24971
674	Netcalibre Ltd			X	AS25098
675	APNIC ASN block			X	AS23930
676	British Telecommunications PLC			X	AS3300
677	Westelcom Internet, Inc.			X	AS11722
678	Phibee Telecom SAS			X	AS8487
679	LLC Cifrovie Seti Urala				AS209307
680	Nodes Direct			X	AS19531
681	Staclar Carrier Ltd.			X	AS34854
682	360NET C.A.			X	AS267805
683	INTERNET AG Global Network			X	AS8495
684	Localitel bvba			X	AS48408
685	Skyware Sp. z o.o.				AS42673
686	Linkt SAS			X	AS44407
687	Simply Transit Ltd			X	AS29550
688	University of Missouri - dba the Missouri Research and Education Network (MOREnet)			X	AS2572
689	America Movil Peru S.A.C.			X	AS12252
690	Cogeco Connexion inc			X	AS11290



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616	BIT BV			
617	FORTEX CJSC			
618	JSC Selectel		X	AS50340
619	Baylor College of Medicine		X	AS302
620	BeotelNet-ISP d.o.o		X	AS6700
621	Vox Telecom Ltd		X	AS11845
622	DHIVEHI RAAJJEYGE GULHUN PLC		X	AS7642
623	Netwise Hosting Ltd		X	AS60800
624	NTE TELEKOM AS		X	AS34087
625	inexio Informationstechnologie und Telekommunikation Gmbh		X	AS8899
626	NOVITATELECOM LLC		X	AS59589
627	Netrouting B.V.		X	AS6206
628	Smithville Digital, LLC			AS11550
629	HALLAG Kommunal GmbH		X	AS34347
630	Melita Limited		X	AS12709
631	1651884 Ontario Inc.		X	AS40028
632	NHM - S.R.L.		X	AS62275
633	AVANT Ltd.			AS199026
634	23M GmbH		X	AS47447
635	ESTOXY OU			AS3920
636	Aspire Technology Solutions Ltd		X	AS51043
637	Planet Networks		X	AS3580
638	JMP Technology Services GmbH		X	AS61423
639	D-LAKE SAS		X	AS49028
640	S-IT Verwaltungs GmbH trading as S-IT Informationstechnologie Betreiber GmbH & Co. KG im Nordschwarzwald		X	AS39702
641	Quality Technology Services, LLC		X	AS17018
642	SpaceNet AG		X	AS5539
643	NEUTRAL NETWORKS, S de RL de CV		X	AS270126
644	JSC Avantel		X	AS25549
645	Unitas Global		X	AS30282
646	Outremer Telecom SAS			AS20776
647	INOC, LLC		X	AS22302
648	Arvig Enterprises Inc.		X	AS16904
649	Natural Wireless, LLC			AS18616
650	Rice University		X	AS4557
651	PJSC Vimpelcom		X	AS8402
652	Information System Authority		X	AS8240
653	WIA spol. s.r.o.		X	AS21430
654	Ryamer, LLC		X	AS400587



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691	Omani Qatari T			
692	HAL Service Sp			
693	JSC Ufanet		X	AS47775
694	Compaa Dominicana de Telfonos S. A.		X	AS6400
695	vServer.site LTD		X	AS56382
696	WebNX, Inc.		X	AS18450
697	EMTEL LIMITED			AS30999
698	Microsoft Corporation		X	AS8075
699	ColoHouse LLC		X	AS47869
700	MDS TELECOM C.A.		X	AS269832
701	JSC Selectel			AS49505
702	Digital Realty (UK) Limited		X	AS49425
703	Foremost Telecommunications			AS23486
704	ARTMOTION SH.P.K.			AS33983
705	Unitas Global		X	AS11855
706	MULTICABLE NETWORK LLC		X	AS54082
707	NCRYPTD NET LTD		X	AS34465
708	Aerux LLP		X	AS63270
709	European Network			AS249
710	Logosnet Services Limited		X	AS5504
711	University of Minnesota		X	AS57
712	Accenture B. V.		X	AS8315
713	Sohonet Limited		X	AS16164
714	Sumofiber		X	AS4226
715	PODA a.s.		X	AS30764
716	Chunghwa Telecom Global, INC			AS33717
717	Infinity Telecom, s.r.o.		X	AS49121
718	KEVAG Telekom GmbH		X	AS12360
719	OOO NIIR-RadioNet		X	AS16143
720	Mixvoip S.A.		X	AS206610
721	GeoLinks		X	AS54483
722	Sky Engineering LLC			AS50254
723	htp GmbH		X	AS13045
724	DATAPLANET Ltd.			AS44964
725	VODAFONE ESPANA S.A.U.		X	AS12430
726	APNIC ASN block			AS17984
727	BalaLink S.A.		X	AS59908
728	ConnetU Ltd.		X	AS51945
729	Hawt Telekom S.A. in Restructuring		X	AS42739
730	PlusServer GmbH		X	AS61157





741	eStruxture Data			AS19172
742	WoodyNet, Inc.			AS19172
743	SITS Ltd			AS47379
744	Russmedia IT GmbH		X	AS5385
745	I.T.E.N.O.S. International Telecom Network Operation Services GmbH		X	AS50533
746	AL-HADATHEH LIL-ITISALAT WA AL-TECHNOLOGIA CO.		X	AS47887
747	Micron21 Datacentre Pty Ltd		X	AS38880
748	Wispone S.R.L.			AS60822
749	Servers.com, Inc.		X	AS7979
750	intersaar GmbH		X	AS12941
751	VTX Communications LLC		X	AS17293
752	Private Stock company Sater		X	AS29107
753	Digital Frankfurt GmbH		X	AS48152
754	STARCLOUD GLOBAL LLC		X	AS140224
755	University of Illinois		X	AS40387
756	ENTEKA Medianet GmbH		X	AS12897
757	HOSTPALACE DATACENTERS LTD		X	AS60064
758	IP Port LLC		X	AS8647
759	Serverel Inc.		X	AS50245
760	InfoWest		X	AS11071
761	DITO TELECOMMUNITY CORP.		X	AS139831
762	MAXnet Systems Ltd.		X	AS8636
763	SERVICIOS DE TELECOMUNICACIONES SETEL S.A. (XTRIM EC)		X	AS14522
764	Opus Interactive		X	AS396930
765	Bellnet Limited		X	AS20521
766	Cable Bahamas		X	AS15146
767	Fiberby ApS		X	AS42541
768	HKN GmbH		X	AS12676
769	HUB Advanced Networks, LLC		X	AS23550
770	Hohl IT e.U.		X	AS40994
771	Telecommunications center UMOS, LLC			AS5429
772	Actus S.A.			AS197790
773	HOR.NET Polska Sp.z o.o.		X	AS34254
774	Fiber Utility Network, Inc.		X	AS40463
775	FASTNET DATA INC		X	AS8796
776	Aztekom LLC			AS34170
777	Tritan Development		X	AS393577
778	Ntirety, Inc.		X	AS20021





776	Aztekom LLC		X	AS39357
777	Tritan Development		X	AS20021
778	Ntirety, Inc.		X	AS559
779	SWITCH		X	AS9208
780	WIN S.A.		X	AS6233
781	xTom		X	AS8365
782	Man-da.de GmbH		X	AS25460
783	The Networking People (TNP) Limited		X	AS8893
784	Artfiles New Media GmbH		X	AS35415
785	Webzilla B.V.		X	AS45498
786	SMART AXIATA Co., Ltd.		X	AS25192
787	CZ.NIC, z.s.p.o.		X	AS21808
788	Peerless Network Inc		X	AS5645
789	TekSavvy Solutions, Inc.		X	AS12350
790	VTX Services SA		X	AS42005
791	LightStorm Services s.r.o.		X	AS3128
792	University of Wisconsin System		X	AS135423
793	Total Information Management Corporation		X	AS1421
794	WANSecurity, Inc.		X	AS57395
795	synaforce GmbH		X	AS15943
796	wilhelm.tel GmbH		X	AS12491
797	Gilat Telecom Ltd.		X	AS5394
798	UNIDATA S.p.A.		X	AS34525
799	KOBA Sp. z o.o.		X	AS29748
800	Quality Technology Services, LLC		X	AS34244
801	Teleservice Bredband Skane AB		X	AS21453
802	Flex Ltd.		X	AS11114
803	Wintek Corporation		X	AS9123
804	TimeWeb Ltd.		X	AS13101
805	TNG Stadtnetz GmbH		X	AS48635
806	CLDIN B.V.		X	AS47973
807	Digital Realty Netherlands B.V.		X	AS8375
808	Telehouse Deutschland GmbH		X	AS28398
809	INTERNET TELEFONIA Y TV DE MICHOACAN SA DE CV		X	AS35575
810	Vaioni Group Ltd		X	AS60764
811	Telecom Samara LLC		X	AS13781
812	Hopkinsville Electric System		X	AS11767
813	Quality Technology Services, LLC		X	AS62955
814	eBay, Inc		X	AS41720

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810	Vaioni Group L			
811	Telecom Samara LLC			AS60764
812	Hopkinsville Electric System		X	AS13781
813	Quality Technology Services, LLC		X	AS11767
814	eBay, Inc		X	AS62955
815	REVOLUTION PROVIDER SRL		X	AS41720
816	3W Infra B.V.		X	AS60144
817	Sony Network Communications Inc.		X	AS2527
818	Nets and Services JCS			AS57174
819	Geodim Ltd.			AS29687
820	Hofmeir Media GmbH		X	AS196922
821	Limited Liability Company Transneft Telecom		X	AS60388
822	OpenXS GmbH		X	AS3331
823	United Telephone Company		X	AS40237
824	EnjoyVC Japan Corporation			AS139076
825	Dialog Axiata PLC.			AS18001
826	Andrews & Arnold Ltd			AS20712
827	ILK Internet.GmbH		X	AS12480
828	Istqrar for Servers Services Ltd		X	AS211826
829	SeaExpress Ltd.			AS31444
830	IVER NORGE AS		X	AS57829
831	Netnod AB		X	AS8674
832	LLC Smart Ape		X	AS56694
833	Rozint Ltd Co		X	AS21738
834	Zayo Infrastructure France SA		X	AS8218
835	Solcon Internetdiensten B.V.		X	AS12414
836	Parker FiberNet, LLC			AS40111
837	TM TECHNOLOGY SERVICES SDN BHD		X	AS4788
838	CTCSCI TECH LIMITED		X	AS9886
839	Alphalink SASU		X	AS25540
840	Home Telephone Company, Inc.		X	AS16863
841	Fiberwide S.p.a.			AS51569
842	Southwest Arkansas Telephone Cooperative			AS46632
843	DIGI Tavkozlesi es Szolgaltato Kft.		X	AS20845
844	Elite Limited		X	AS29611
845	Copaco Cloud B.V.		X	AS38983
846	CETIN Bulgaria EAD			AS29244
847	APNIC ASN block			AS136838
848	Liden Data Internetwork AB			AS25466

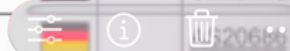


844	Elite Limited	November 5, 2024 10:08 PM			
845	Copaco Cloud B.v.			X	AS38983
846	CETIN Bulgaria EAD				AS29244
847	APNIC ASN block				AS136836
848	Liden Data Internetwork AB				AS25466
849	Redge Technologies sp. z o.o.			X	AS57811
850	Opteamax GmbH			X	AS48200
851	CEGECOM S.A.			X	AS15965
852	Expereo International BV			X	AS15695
853	KDDI America Inc.			X	AS4459
854	Telmex Colombia S.A.			X	AS14080
855	BrightRidge			X	AS22987
856	UNMANAGED LTD			X	AS47890
857	EveryWare AG				AS24951
858	Stealth Broadband				AS395194
859	Merula Limited			X	AS16353
860	COM-IN Telekommunikations GmbH			X	AS51402
861	Adaptive Data Networks, LLC			X	AS23367
862	Opus Interactive			X	AS14380
863	Citytelecom LLC			X	AS33962
864	Net at Once Sweden AB			X	AS35706
865	E-Light-Telecom Ltd.				AS39927
866	doof.net			X	AS395823
867	AMT GROUP TELECOM Limited Liability Company				AS9110
868	Cronos NV				AS48638
869	cmcnetworks			X	AS25818
870	ANS ACADEMY LIMITED			X	AS61323
871	SBA Edge, LLC			X	AS19844
872	BaikalWestCom			X	AS50187
873	Sieci Blokowe S.C.				AS51484
874	ORANGE BUSINESS SERVICES U.S. Inc.			X	AS2874
875	DELTA ONLINE spol. s r.o.			X	AS34820
876	Warian S.R.L.			X	AS56911
877	JSC Avantel				AS197235
878	Zhejiang Taobao Network Co.,Ltd			X	AS24429
879	QuadraNet Enterprises LLC			X	AS8100
880	Disaster Networks, LLC				AS17303
881	IP Transit Inc.			X	AS46786
882	regio[.NET] Holding GmbH			X	AS8804



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953	ME Consultancy			
954	Bisping & Bisping GmbH			AS39130
955	SALZBURG AG fur Energie, Verkehr und Telekommunikation		X	AS8445
956	Netnam Company		X	AS24173
957	Rambler Internet Holding LLC		X	AS24638
958	Iristel Inc			AS33164
959	VOO S.A.		X	AS12392
960	IT arte Sp. z o.o.			AS24929
961	HostHatch, LLC		X	AS63473
962	I NET BULGARIA EOOD		X	AS60447
963	China Unicom Global			AS10099
964	Easynet S.P.A.		X	AS21454
965	Estabanell Impulsa S.A			AS200434
966	Haendle & Korte GmbH		X	AS44700
967	XMATICA SRL			AS60475
968	AVUR AS		X	AS50272
969	akquinet outsourcing gGmbH		X	AS35258
970	Catixs Ltd		X	AS48266
971	QuickPacket, LLC		X	AS46261
972	SOCIAL MARKETING AND PROMOTIONS S.A. DE C.V.		X	AS265840
973	Broadband Gibraltar Limited		X	AS34803
974	Latvijas Mobilais Telefons SIA		X	AS12847
975	AOFEI DATA INTERNATIONAL COMPANY LIMITED		X	AS135391
976	SWN Stadtwerke Neumuenster GmbH			AS207790
977	Vapor IO, Inc.		X	AS5670
978	West Carolina Communications, LLC			AS10279
979	DigitalOcean, LLC		X	AS14061
980	Plusinfo OOO			AS24936
981	Contabo GmbH		X	AS51167
982	LinkedIn Corporation		X	AS14413
983	LM Layer and Mesh AB		X	AS42303
984	VMWare, Inc.		X	AS53766
985	Unwired Broadband, LLC		X	AS33548
986	Ekaterinburg-2000 LLC		X	AS31499
987	DSM (GB) Limited		X	AS48070
988	One.com A/S		X	AS51468
989	Citizens Telephone Cooperative		X	AS16942
990	TIS Dialog LLC		X	AS31214
991	IP Connect Inc		X	AS213373
992	Interphase Communications, Inc.			AS54301



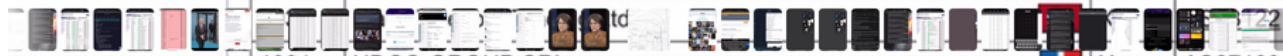
880	Disaster Network			
881	IP Transit Inc.			
882	regio[.NET] Holding GmbH		X	AS8804
883	RTC Communications Corp.		X	AS393227
884	AIRESPRING, INC.		X	AS26375
885	ASK4 Limited		X	AS41230
886	Conexon Connect		X	AS399896
887	PayPal, Inc.			AS17012
888	Bykov Roman Andreevich		X	AS48610
889	PacketHub S.A.		X	AS141035
890	Haridus- ja Teadusministeerium		X	AS3221
891	Aktsiaselts WaveCom		X	AS34702
892	Zen Internet Ltd		X	AS13037
893	Host-Telecom.com s.r.o.		X	AS51248
894	Noris-ITK GmbH		X	AS47526
895	NIDIX NETWORKS S.A. DE C.V.		X	AS265627
896	Race Tech, LLC		X	AS30041
897	Vianova S.p.A		X	AS21056
898	Cleura AB		X	AS42695
899	S1 Networks Oy		X	AS199506
900	VADAVO SOLUCIONES SL		X	AS5505
901	Tampnet AS		X	AS200781
902	Tripnet AB		X	AS34385
903	Neocarrier Communications Sarl			AS48885
904	Art of Automation B.V.		X	AS60893
905	Dynascale Technologies, Inc.			AS7296
906	InterneXt 2000, s.r.o.		X	AS25424
907	RUCOMTECH LLC		X	AS207133
908	IGT LOTTERY S.P.A.		X	AS35574
909	EDPNET Belgium BV		X	AS9031
910	Allegro sp. z o.o.		X	AS31621
911	DE-CIX Management GmbH		X	AS51531
912	Wantelco SAS de CV		X	AS270156
913	smartTERRA GmbH		X	AS35548
914	Sky UK Limited		X	AS5607
915	AS-FIBRECOMM-MY- Internet Service Provider		X	AS45630
916	Marston's Telecoms Limited		X	AS61124
917	Connective Online Limited		X	AS39175
918	LinzNet Internet Service Provider GmbH			AS28889
919	LANSOFT DATA SRL		X	AS31554



1025	ETL Company L			
1026	Velocity Netwo			
1027	ACCELERATED DATA WORKS, INC.			AS7453
1028	BNW TECHNOLOGY LTD		X	AS34442
1029	Nitronet Sp. z o.o.			AS39310
1030	Manx Telecom Trading Ltd		X	AS13122
1031	HDCO GROUP SRL		X	AS271934
1032	Aitire S.L		X	AS208591
1033	STRATA NETWORKS		X	AS30432
1034	Link Ltd.			AS48940
1035	NTX Technologies s.r.o.			AS50113
1036	NOVACONN SRL		X	AS203462
1037	AMX Argentina S.A.		X	AS19037
1038	Cyso Group B.V.		X	AS25151
1039	Ltd. Konnektika			AS15886
1040	CYBERCON, INC.		X	AS7393
1041	ITM TELECOM			AS36165
1042	UGO LLC		X	AS199805
1043	Advanced Communications Technology			AS30110
1044	Burstfire Networks Ltd		X	AS9153
1045	Skynet sp. z o.o.		X	AS41966
1046	APNIC ASN block		X	AS132337
1047	Giganews, Inc.			AS30094
1048	CloudFerro S.A		X	AS200995
1049	BiMajLink d.o.o.		X	AS62255
1050	METROPORT Sp. z o.o.			AS197091
1051	dcBLOX, Inc.		X	AS395567
1052	Tulix Systems, Inc.		X	AS7219
1053	Netskope Inc			AS55256
1054	Razorblue Ltd		X	AS15692
1055	ADVANCED KNOWLEDGE NETWORKS		X	AS14453
1056	EDIS GmbH		X	AS57169
1057	INTERDNESTRKOM, Sovmestnoe Zakrytoe Aktsionernoe Obshchestvo		X	AS1547
1058	ISP/IXP IN CAMBODIA WITH THE BEST SERVICE IN THERE.			AS38623
1059	Interserver, Inc		X	AS19318
1060	P/F Telefonverkid		X	AS15389
1061	Unlimited Net, LLC		X	AS11990
1062	LANTOINTERNET SA DE CV		X	AS265561
1063	Unitas Global		X	AS13790
1064	Clarity Telecom LLC		X	AS20412



991	IP Connect Inc	November 5, 2024 10:08 PM			AS213377
992	Interphase Communications, Inc.				AS54301
993	Internet Systems Consortium, Inc.			X	AS1280
994	Yandex.Cloud LLC			X	AS200350
995	Telecable Economico S.A.				AS52263
996	Georgia System Operations, Corporation				AS63370
997	Qlosr AB				AS51956
998	FastNet International Ltd			X	AS12519
999	Path Network, Inc.			X	AS396996
1000	AO Countrycom				AS25189
1001	Joint Stock Company Kuzbassenergosviaz				AS24811
1002	Actual Broadband			X	AS32913
1003	NORTHERN DATA SERVICES (UK) LIMITED			X	AS200675
1004	Discovery Networks International LLC				AS62935
1005	Kakao Corp			X	AS10158
1006	Facebook, Inc.			X	AS32934
1007	Information Technology and Cyber Security Service				AS39279
1008	PacketHub S.A.			X	AS207137
1009	Krypt Technologies			X	AS35908
1010	Unitas Global			X	AS10912
1011	Peter Rauter GmbH			X	AS39878
1012	connecta ag			X	AS31662
1013	NexonHost Srl				AS62390
1014	Bicentel SA de CV			X	AS28394
1015	NetCom-R LLC			X	AS49531
1016	LU-CIX Management GIE			X	AS208374
1017	P4 Sp. z o.o.			X	AS39603
1018	equada network GmbH			X	AS25220
1019	Petrus Spolka z ograniczona odpowiedzialnoscia			X	AS44914
1020	net-and-phone GmbH				AS42596
1021	freenet Datenkommunikations GmbH			X	AS5430
1022	Tracity Inc.			X	AS27908
1023	Ikoula Net SAS			X	AS21409
1024	VESTITEL BG			X	AS39505
1025	ETL Company Limited			X	AS10226
1026	Velocity Networks, Inc.				AS8018
1027	ACCELERATED DATA WORKS, INC.				AS7453
1028	BNW TECHNOLOGY LTD			X	AS34442
1029	Nitronet Sp. z o.o.				AS39310



916	Marston's Telec			
917	Connective Onl			
918	LinzNet Internet Service Provider GmbH			AS28889
919	LANSOFT DATA SRL		X	AS31554
920	GLU TECHNOLOGIES, S.L.		X	AS202550
921	Velocity Network, Inc.			AS7341
922	Free SAS		X	AS12322
923	JSC ER-Telecom Holding		X	AS25408
924	Cadence Networks Ltd		X	AS47638
925	JSC IOT		X	AS29182
926	Cologuard		X	AS22418
927	OOO Gruppa MosLine		X	AS31370
928	Board of Regents of the University System of Georgia			AS3479
929	Softnet Limited		X	AS135156
930	LLC VK		X	AS47764
931	UFINET MEXICO S. DE R.L. DE C.V.		X	AS265620
932	net.de AG		X	AS15743
933	F2X Operator B.V.		X	AS57112
934	A2A Smart City S.P.A			AS12445
935	dogado GmbH		X	AS8648
936	FORWEB S.C. Monika Bodetko, Tomasz Pawlowski		X	AS33951
937	NextGenTel AS		X	AS15659
938	Erdenreich Datentechnik GmbH		X	AS13247
939	Gibtelecom Ltd.		X	AS8301
940	BEN LOMAND RURAL TELEPHONE COOPERATIVE, INC.		X	AS21766
941	ACEVILLE PTE.LTD.		X	AS139341
942	Trinity Network Solutions		X	AS398044
943	E-Gate Communications Inc.		X	AS13657
944	MTC Communications, Inc.		X	AS14363
945	Nuday Networks Inc.			AS1100
946	Diyixian.com Limited		X	AS9584
947	AllPoints Fibre Limited		X	AS5482
948	POCOS B.V.		X	AS50522
949	Dr.-Ing. Nepustil & Co. GmbH Internet Service Center Ingenieurgesellschaft fuer Systemsoftware und Kommunikationstechnik		X	AS33843
950	INTAC Services GmbH		X	AS203755
951	PTI Pacifica Inc.		X	AS7131
952	Fiberaccessbolaget i Sverige AB			AS202395
953	ML Consultancy		X	AS9150



1063	Unitas Global			
1064	Clarity Telecom			
1065	Jordanian mobile phone services Ltd			AS48832
1066	Space Exploration Technologies Corporation		X	AS14593
1067	Highline Services, LLC		X	AS32798
1068	ZAO COMPLAT-TELECOM			AS24663
1069	ZORAN PEROVIC trading as Agencija Perke.NET		X	AS60733
1070	HEXAGLOBE SAS		X	AS31564
1071	LLC Real-net		X	AS13178
1072	Semaphore Corporation		X	AS3742
1073	DNS:NET Internet Service GmbH		X	AS15366
1074	Kaopu Cloud HK Limited		X	AS138915
1075	Securus Communications Ltd.			AS59659
1076	Joint stock company For			AS48642
1077	Source Telecoms Inc.		X	AS18187
1078	NET2ATLANTA.COM LLC			AS20081
1079	imos Gesellschaft fuer Internet-Marketing und Online-Services mbH		X	AS20677
1080	NovoServe LLC		X	AS939
1081	terralink networks GmbH		X	AS59507
1082	NEULINK NETWORKS			AS272365
1083	NETGUARD LLC			AS39251
1084	JSC Netline		X	AS12739
1085	Kantonsschule Zug		X	AS34288
1086	Internet Systems Consortium, Inc.		X	AS33071
1087	Quality Technology Services, LLC		X	AS46742
1088	S.C. Teletrans S.A.		X	AS34279
1089	9STONE LLC		X	AS399078
1090	Webzilla Inc.		X	AS40824
1091	Arcus Novus UAB		X	AS51259
1092	level66.network UG (haftungsbeschraenkt)		X	AS56381
1093	Two P		X	AS6140
1094	Centrilogic Ltd		X	AS44332
1095	NetFire, LLC		X	AS394102
1096	Raiffeisen Informatik GmbH & Co KG		X	AS24864
1097	SamsungSDS Inc.		X	AS6619
1098	Akamai International B.V.		X	AS34164
1099	First Telecom Ltd			AS39156
1100	Hydra Communications Ltd		X	AS58325
1101	InfoServe GmbH		X	AS9188





1101	InfoServe GmbH		X	AS1188
1102	Data-center IMA			AS12000
1103	TIMEWARP IT Consulting GmbH		X	AS207203
1104	Riviera Networks Inc SAS			AS207181
1105	LayerHost		X	AS397086
1106	Netversor GmbH		X	AS200081
1107	Centrilogic, Inc.		X	AS19693
1108	MDlink online service center GmbH		X	AS43341
1109	LLC SIP NIS		X	AS35032
1110	Tcloudnet		X	AS399077
1111	Globecorp Networks			AS63113
1112	LLC Svyaz Invest			AS205460
1113	NetUSE AG		X	AS5605
1114	Iguane Solutions SAS		X	AS39605
1115	ESCOMTEL BACKGROUND COMMUNICATION NETWORKS Ltd.			AS61031
1116	nfon AG		X	AS8878
1117	Ledl.net GmbH		X	AS25575
1118	UAB Cgates		X	AS21412
1119	Multiplay Sp. z o.o. Sp. K.		X	AS51175
1120	WEDOS Internet, a.s.		X	AS208414
1121	Madrone Technology Group Inc.		X	AS397945
1122	TDF SASU		X	AS43646
1123	Omnis Network, LLC		X	AS19237
1124	AT&T COMUNICACIONES DIGITALES S DE RL		X	AS28469
1125	Bredband2 Bredbandsson AB		X	AS62183
1126	EMP SECURE AS		X	AS28824
1127	ALTICE DOMINICANA S.A.		X	AS28118
1128	Google LLC		X	AS19527
1129	Internet Systems Consortium, Inc.		X	AS30132
1130	GoDaddy.com, LLC		X	AS398104
1131	Roblox		X	AS22697
1132	GoDaddy.com, LLC		X	AS398788
1133	PacketHub S.A.		X	AS147045
1134	InterNetX GmbH		X	AS15456
1135	Local Loop Oy		X	AS204779
1136	LLC Foratelecom			AS57420
1137	SMART-TEL LLC			AS216366
1138	Iguane Solutions SAS		X	AS200271
1139	Alfa Network SL		X	AS213138



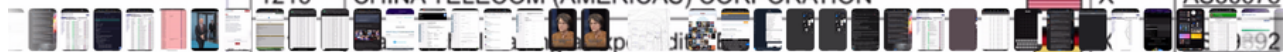


1139	Alfa Network S	November 5, 2024 10:08 PM			AS213...
1140	SQUARE-POL AS				AS17685
1141	e-Style ISP LLC			X	AS20655
1142	Adam Goodenough				AS210667
1143	On-Ramp Indiana, Inc. (ORI.NET)				AS14333
1144	Northern Data AG			X	AS59437
1145	Sky UK Limited			X	AS207163
1146	Orion Network Limited			X	AS58065
1147	263 Global Communications Limited				AS142132
1148	MD6 Consulting SASU			X	AS39567
1149	MavianMax srl				AS200873
1150	Sky Fiber Internet				AS32212
1151	Parknet F.M.B.A.			X	AS197301
1152	Blizzard Entertainment, Inc			X	AS57976
1153	Inteliquent, inc.				AS5715
1154	M-Networks Sp. z o.o.			X	AS198611
1155	CDS Global Cloud Co., Ltd			X	AS63199
1156	Nevalink, LLC				AS42668
1157	Koseniuk Oleksandr Volodimirovich			X	AS56834
1158	Minjae Kim			X	AS215343
1159	Elektrizitaets- und Wasserwerk der Stadt Buchs SG			X	AS41549
1160	Great Lakes Energy Connections Inc.			X	AS398143
1161	GoDaddy.com, LLC			X	AS397521
1162	objx.net, LLC			X	AS33333
1163	Trenka Informatik AG			X	AS29655
1164	Netsec Limited			X	AS45753
1165	Vkontakte Ltd			X	AS47541
1166	GO p.l.c.				AS15735
1167	DATAGROUP Operations GmbH				AS199163
1168	Loopia AB			X	AS41528
1169	DND Nordic AB				AS49515
1170	xTom Pty Ltd			X	AS8888
1171	Beeks Financial Cloud Ltd				AS57624
1172	Omega Telecom LLC				AS199995
1173	Nextremum s.r.o.				AS208962
1174	Dustin NL B.V.			X	AS28788
1175	Quality Technology Services, LLC			X	AS26978
1176	Krastelecom Ltd				AS196935
1177	LueneCom Kommunikationsloesungen GmbH			X	AS201035





1177	LueneCom Kor	November 5, 2024	mbH		X	AS4628
1178	Pacific Internet Pte Ltd	10:08 PM			X	AS4628
1179	DATAPRO Limited Liability Company				X	AS20016
1180	Amplex Electric, Inc.				X	AS20205
1181	Accretive Networks					AS4258
1182	Kindred IP Limited					AS47171
1183	T2 Mobile LLC					AS12958
1184	IONOS Cloud Inc.				X	AS54548
1185	PT. Kreatif Pasific					AS56252
1186	IDCServices.net Inc					AS139750
1187	ABS Global					AS38176
1188	Sirius LLC					AS215226
1189	Svyaz-Energo Ltd.				X	AS50477
1190	2K GAMES, Inc.					AS395856
1191	vitroconnect GmbH				X	AS57353
1192	GoDaddy.com, LLC				X	AS398102
1193	TCT West, Inc.				X	AS4474
1194	Ooredoo Maldives Plc				X	AS55944
1195	GoDaddy.com, LLC				X	AS398106
1196	GoDaddy.com, LLC				X	AS397518
1197	Loopia AB				X	AS39570
1198	netconnect AG				X	AS212865
1199	CONECAL				X	AS23487
1200	OOO NI				X	AS3226
1201	June Slater				X	AS42615
1202	WebSupport s.r.o.				X	AS51013
1203	Mainzer Breitband GmbH				X	AS205765
1204	Nuclearfallout Enterprises, Inc.				X	AS400475
1205	Orange Business Digital Germany GmbH				X	AS48173
1206	CORPORACION NACIONAL DE TELECOMUNICACIONES - CNT EP				X	AS26613
1207	UAB Cherry Servers				X	AS204770
1208	Connectria, LLC				X	AS60154
1209	JSC RCS					AS25511
1210	Livenet Sp. z o.o.				X	AS39869
1211	cloudinfrastack, s.r.o.					AS8646
1212	Peer Kohlstetter trading as Hessenkom GmbH & Co. KG					AS50469
1213	WIFIWEB s.r.l.				X	AS47927
1214	Single Point Global, Inc.					AS26512
1215	CHINA TELECOM (AMERICAS) CORPORATION				X	AS36678





1252	Amito Ltd		X	AS57100
1253	Telconet S.A		X	AS26478
1254	GoDaddy.com, LLC		X	AS39751
1255	China Education and Research Network Center		X	AS4538
1256	El Salvador Network, S. A.		X	AS16906
1257	VoiceHost Ltd		X	AS31472
1258	LEGEND DYNASTY PTE. LTD.		X	AS139057
1259	OSN Online Service Nuernberg GmbH			AS8859
1260	Proactivity Group Limited			AS150345
1261	AGARIK SAS		X	AS16128
1262	Tencent Building, Kejizhongyi Avenue		X	AS132203
1263	JWE S.a r.l.		X	AS34655
1264	SACLAK NETWORK SARL		X	AS201675
1265	Cloudflare, Inc.		X	AS395747
1266	YouFibre Limited		X	AS212655
1267	EOLO S.p.A.		X	AS35612
1268	NYITX			AS54829
1269	OOO Petrosvyaz		X	AS50538
1270	Podkarpacki.net Rafal Czarny			AS16110
1271	Free SAS		X	AS210595
1272	Wifx SA		X	AS199811
1273	Avelacom Business Ltd.			AS31059
1274	E-Large (HongKong) Limited			AS142576
1275	Pulsar Networks Inc			AS400405
1276	Sota Solutions Ltd.		X	AS31742
1277	GoDaddy.com, LLC		X	AS397515
1278	IPVOIP s.r.o.			AS50097
1279	INTERNET EXCHANGE SERVICES YUCATAN		X	AS270173
1280	euNetworks GmbH			AS13237
1281	Comprehensive Security Sweden AB		X	AS34628
1282	Nebius B.V.		X	AS213291
1283	EZE Castle Integration Inc.		X	AS14717
1284	SPECIAL INTERNET OPERATIONS SRL			AS2541
1285	Alibaba (US) Technology Co., Ltd.		X	AS45102
1286	Backblaze Inc		X	AS40401
1287	Centrillogic, Inc.		X	AS31863
1288	4Tel Telekomunikacije d.o.o.		X	AS203964
1289	AT Telecom llc			AS204126
1290	SingNet		X	AS3758





1213	WIFIWEB s.r.l.		X	AS36678
1214	Single Point Global Inc.		X	AS39892
1215	CHINA TELECOM (AMERICAS) CORPORATION		X	AS60486
1216	Frank Scholl trading as xpoundit GBR		X	AS23342
1217	Swiss Networking Solutions AG		X	AS32045
1218	Unitedlayer, Inc.		X	AS398704
1219	1U Web, INC.			AS14586
1220	STACKS INC		X	AS26337
1221	Nuclearfallout Enterprises, Inc.		X	AS59432
1222	Oso Grande IP Services, LLC			AS41897
1223	GINERNET S.L.		X	AS47232
1224	Sat-Trakt D.O.O.		X	AS205226
1225	ISP Alliance a.s.		X	AS22616
1226	MediaNet LLC			AS54600
1227	ZSCALER, INC.		X	AS398105
1228	PEG TECH INC		X	AS46606
1229	GoDaddy.com, LLC		X	AS13135
1230	Unified Layer			AS6507
1231	Wieske's Crew GmbH		X	AS399912
1232	Riot Games, Inc		X	AS31317
1233	Hayo Telecom, Inc			AS47768
1234	AnschlussWerk GmbH		X	AS397516
1235	UK Intis Telecom LTD			AS714
1236	GoDaddy.com, LLC		X	AS198936
1237	Apple Inc.		X	AS38757
1238	Vereinigte Stadtwerke Media GmbH		X	AS49375
1239	PT INDONESIA COMNETS PLUS		X	AS5377
1240	No One Internet Ltd		X	AS43893
1241	Marlink AS		X	AS25148
1242	Mainloop AB		X	AS397520
1243	ORANGE BUSINESS DIGITAL NORWAY AS		X	AS48813
1244	GoDaddy.com, LLC		X	AS1248
1245	Enix SAS		X	AS34225
1246	HERE Global BV		X	AS30081
1247	SpeedPartner GmbH		X	AS57208
1248	CacheNetworks, Inc.		X	AS399521
1249	Advania Sverige AB		X	AS50313
1250	BNS		X	AS57168
1251	TESATEL LLC		X	AS57786
1252	Amito Ltd		X	

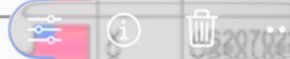
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1288	4tel Telekomunik			
1289	AT Telecom llc			
1290	SingNet		X	AS3758
1291	TPx Communications		X	AS11915
1292	Rechenzentrum Hassfurt GmbH		X	AS44973
1293	CETIN Hungary Zrt.		X	AS8448
1294	University of Iowa		X	AS3676
1295	NETSYST SAS		X	AS209097
1296	E-Solutions BV			AS201984
1297	MSN Telecom LLC			AS34352
1298	GoDaddy.com, LLC		X	AS398109
1299	LLC NextTell'			AS199635
1300	Embark Studios AB		X	AS58317
1301	Cooperative Connection, LLC		X	AS398446
1302	LigaLink LLC			AS198185
1303	Network Platforms (PTY) LTD			AS37497
1304	Netflix Streaming Services Inc.		X	AS2906
1305	Amarutu Technology Ltd		X	AS206264
1306	Omnichannel technologies LLC			AS200015
1307	Wiland Ltd		X	AS21367
1308	Teleconnect CZ s.r.o.			AS207354
1309	V-NET B.V.			AS47864
1310	ArtPlanet LLC		X	AS49542
1311	Coriolis Telecom SAS		X	AS60032
1312	Lennart Seitz trading as ETH-Services		X	AS200462
1313	xTom OU		X	AS3204
1314	Leitwert GmbH		X	AS39063
1315	CSpace Hostings OU		X	AS208367
1316	LMAX Limited			AS41477
1317	Riedel Networks GmbH & Co. KG.			AS34308
1318	eServer s.r.o.		X	AS42244
1319	DELTA Fiber Nederland B.V.		X	AS15435
1320	3U TELECOM GmbH		X	AS198710
1321	Netzwerke GmbH		X	AS199938
1322	badenIT GmbH		X	AS13054
1323	leniwick.biz Grzegorz Kulewski			AS43476
1324	The Internet Business Ltd			AS41678
1325	VENTE-PRIVEE.COM SA		X	AS60350
1326	Style IT Solutions d.o.o.			AS51577
1327	Cisco Webex LLC		X	AS13445



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1436	Bitmax, Inc.			AS160210
1437	Centrix Web Services LLC			AS160210
1438	IDT Corporation			AS7270
1439	Apelby Solutions s.r.o.			AS204080
1440	GIGAS HOSTING USA, LLC			AS27640
1441	Vexus Fiber			AS397772
1442	Inteliglobe USA, Inc.		X	AS16921
1443	RocketNet Ltd.			AS205264
1444	Jorge Luis Torres Fernandez			AS270186
1445	EXPERT NETCLOUD LLP			AS209723
1446	MyRepublic Ltd.		X	AS132132
1447	ISP Service eG		X	AS198818
1448	Twitch Interactive Inc.		X	AS46489
1449	Limited Liability Company NTCOM			AS41853
1450	Electronic Arts Limited			AS207601
1451	Covered Bridge Data, LLC		X	AS397774
1452	43/F, AIA Tower, 183 Electric Road, North Point, Hong Kong		X	AS63981
1453	Keepit A/S		X	AS213054
1454	Batterflyai Media Ltd.			AS59580
1455	netsapiens		X	AS397494
1456	IT-Total Sweden AB		X	AS8769
1457	OOO L-Telecom			AS205495
1458	Gazprom telecom LLC			AS20576
1459	Comfone AG			AS35030
1460	Iron Mountain Data Center		X	AS395174
1461	VNext AB		X	AS44176
1462	EVOTOR LLC			AS203907
1463	Dedicated IT, LLC			AS398570
1464	Institute of information & analytical technologies IIAT, Limited			AS9039
1465	Leaseweb Deutschland GmbH		X	AS28753
1466	Zadara Storage, Inc.			AS394957
1467	IPEFIX SARL			AS34727
1468	Comfone AG			AS33849
1469	Acquire BPO Pty Ltd			AS58907
1470	Joyent, Inc.			AS26464
1471	Tilaa B.V.		X	AS196752
1472	ROMAN EDUARDOVICH ZAMKOV		X	AS50766
1473	Asteo Red Neutra SL		X	AS210612
1474	Kovrov Telecom Ltd			AS44988
1475	TBANK JSC			AS205638





1326	Styria IT Solutions	November 5, 2024		
1327	Cisco Webex LLC	10:08 PM		
1328	Nets and Services JCS			AS8241
1329	T38Fax Incorporated		X	AS396431
1330	Forcepoint Cloud Ltd		X	AS44444
1331	Association Gitoyen		X	AS20766
1332	EASYHOST SRL			AS39756
1333	CAMELLIA FIBER		X	AS399111
1334	ELART Sp. z o.o.			AS34844
1335	IP Group AS		X	AS16186
1336	Precision Data Solutions, LLC			AS11142
1337	Contabo Asia Private Limited		X	AS141995
1338	Allgeier IT Services GmbH			AS208517
1339	aiticon GmbH		X	AS203966
1340	BOLIGNET A/S		X	AS44134
1341	APNIC ASN block		X	AS63949
1342	UD Media GmbH		X	AS199753
1343	NetFire sp. z o. o.		X	AS199540
1344	Telavox AB			AS44123
1345	DID Logic Limited			AS13006
1346	Freepoint Commodities, LLC			AS53973
1347	APNIC ASN block		X	AS136897
1348	Remedy Entertainment Oyj		X	AS207265
1349	R&R Managed Telecom Services			AS19970
1350	Amisol GmbH		X	AS209551
1351	SISTEMAS Y SOLUCIONES DE CAMPECHE SAS DE CV		X	AS265583
1352	Duisburger Versorgungs- und Verkehrsgesellschaft mbH		X	AS206141
1353	Master Route LLC			AS206070
1354	Niko-2001 LLC			AS30953
1355	AS48707 OPS PL sp. z o.o.		X	AS48707
1356	Nebius B.V.			AS214415
1357	Samba TV, Inc.			AS29758
1358	Axpo Systems AG		X	AS60284
1359	Wish		X	AS400274
1360	Advanced Software Production Line, S.L.			AS206102
1361	TORC Robotics, Inc.			AS398476
1362	Proofpoint, Inc.		X	AS52129
1363	Clair Global		X	AS400400
1364	Acronis		X	AS53991
1365	REDSOLEX Ltd			AS43102
1366	Red Technology S.L.			AS107240





1363	Clair Global			November 5, 2024	
1364	Acronis			10:08 PM	
1365	REDSOLEX Ltd.				AS43102
1366	ASPA Technology S.L.				AS197240
1367	Operations & Compliance Network LLC				AS12211
1368	COEFICIENTE COMUNICACIONES		X		AS265524
1369	Optovaya Textile Company, Ltd.				AS58288
1370	IP Telecom Bulgaria		X		AS199790
1371	Red Matter Limited				AS206483
1372	System Service Ltd.				AS50448
1373	Greenfiber Internet & Dienste GmbH		X		AS207436
1374	China Telecom Europe Ltd.				AS49209
1375	CyberU, Inc.				AS26476
1376	Nasdaq Technology AB				AS16115
1377	Internetport Sweden AB		X		AS49770
1378	Uber Technologies, Inc		X		AS26673
1379	Korves.Net USA LLC		X		AS207435
1380	Jungheinrich AG		X		AS212961
1381	AMEN SAS		X		AS48185
1382	Addooco IT Ltd				AS205120
1383	Konica Minolta Business Solutions Europe GmbH		X		AS25068
1384	SpeedyNet				AS62913
1385	Kishka Anry Aleksandrovich				AS29043
1386	OpenTV Inc				AS3850
1387	Kia Corporation				AS131835
1388	Board of Elections in the City of New York				AS22422
1389	Sokom S.r.l.				AS57507
1390	Fragnet Networks International AB		X		AS210365
1391	Internet Rimon LTD		X		AS42925
1392	Stellar PCS GmbH		X		AS35207
1393	Gazelle Communications Corp.				AS62782
1394	Connect It Networks		X		AS54509
1395	A2 Hosting, Inc.				AS55293
1396	IG Index Ltd.		X		AS30931
1397	Korporatsia Svyazy Ltd.				AS44041
1398	EDGEAM LLC		X		AS201585
1399	Fastly, Inc.		X		AS54113
1400	Nasdaq Technology AB				AS206627
1401	SES Fiber		X		AS53449
1402	VER CT ASN 01				AS399765



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1472	ROMAN EDUARD			
1473	Asteo Red Neu			
1474	KovrovTelecom Ltd.			AS44988
1475	TBANK JSC			AS205638
1476	LEASEWEB SINGAPORE PTE. LTD.			AS59253
1477	Teracom Communications			AS328449
1478	mnemonic AS		X	AS48469
1479	Youth Autonomous Non-Commercial Organisation Home Computer Network Strela			AS42377
1480	Remote24 AB		X	AS199544
1481	Wolverine Trading, LLC			AS400039
1482	Sambanova Systems, Inc.			AS400215
1483	AS Telset			AS51504
1484	STN Incorporated			AS395029
1485	Vodafone Italia S.p.A.			AS30722
1486	ARSYS INTERNET S.L.U.			AS20718
1487	Key Cooperative			AS40350
1488	Jobsite Software, Inc.			AS395160
1489	Nintendo European Research and Development SAS			AS210492
1490	iptoX GmbH		X	AS33828
1491	VOXYONDER NETWORK SERVICES UK LTD			AS206530
1492	Private Host BV		X	AS56898
1493	e-planning		X	AS399666
1494	Binero AB		X	AS60094
1495	Rogers Capital Technology Services Ltd			AS36868
1496	Protected.CA Inc.		X	AS40470
1497	Jon Arve Vanvik		X	AS210152
1498	SD1-Telecom SRL		X	AS201042
1499	Limited Liability Company WELLCOM-L			AS50289
1500	NAVER Cloud Corp.			AS23576
1501	INDERT CONNECTION LP		X	AS203443
1502	GoDaddy.com, LLC		X	AS397522
1503	Woven By Toyota, U.S., Inc.			AS397176
1504	UnitedLayer, LLC		X	AS40061
1505	Mod Mission Critical LLC		X	AS39855
1506	Techie Hosting, Inc.			AS13909
1507	PERFECT INTERNATIONAL		X	AS22439
1508	KISSGROUP SAS		X	AS215596
1509	Mobile Links Europe AB			AS205166
1510	ArubaCloud Limited		X	AS199883

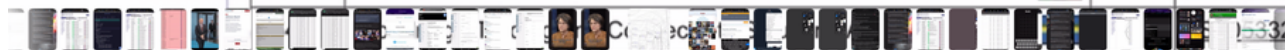


1399	Fastly, Inc.			
1400	Nasdaq Techno			
1401	OEC Fiber		X	AS53449
1402	VER CT ASN 01			AS39976
1403	Kaspersky Lab Switzerland GmbH		X	AS200107
1404	TELECOMUNICACIONES G-NETWORK, C.A.			AS272122
1405	Adyen N.V.			AS200596
1406	Bundesnetzagentur fuer Elektrizitaet, Gas, Telekommunikation, Post und Eisenbahnen			AS56801
1407	TDM Group Limited			AS25022
1408	Obos Nett AS		X	AS212765
1409	Societe Internationale de Telecommunications Aeronautiques		X	AS205086
1410	Zhengzhou longling technology ltd.		X	AS133952
1411	Oracle Corporation		X	AS54253
1412	ViaNetTV Inc			AS54198
1413	Zscaler Switzerland GmbH		X	AS62044
1414	ClearMedia AG		X	AS49489
1415	Xiufeng Guo		X	AS210937
1416	Tierzero		X	AS11509
1417	Natural Wireless, LLC			AS400648
1418	IBASIS INC.		X	AS14616
1419	INSPOORT BOZENNA PIECEK			AS42547
1420	SEPHORA SAS			AS204435
1421	SWITCH, LTD		X	AS3900
1422	GVVME		X	AS12186
1423	GK INTERLOGICA LLC			AS57843
1424	Globo Comunicacao e Participacoes SA		X	AS28604
1425	Universum bit Ltd.		X	AS48822
1426	Radionomy SA			AS202708
1427	iHome LLC		X	AS25478
1428	Infront Financial Technology GmbH		X	AS201463
1429	LLC Wildberries		X	AS57073
1430	Icomera US, Inc.			AS398836
1431	TAQNIA SPACE CO.		X	AS42411
1432	SmartLabs Holding Ltd		X	AS61170
1433	FLOWBIRD SAS		X	AS49920
1434	EI TOWERS S.P.A.			AS34599
1435	velia.net		X	AS30083
1436	Bitmax, Inc.		X	AS18646
1437	Centrix Web Services LLC		X	AS207023





1511	Oracle Corporation			AS11566
1512	Public Service Data, Inc.			AS53959
1513	Spacelink Systems		X	AS21623
1514	Eastern Indiana WIFI, Inc.			AS54039
1515	Corporacion Laceibanet Society		X	AS263740
1516	ExaCloud Factory, S.L.		X	AS212755
1517	Total Uptime Technologies, LLC		X	AS53334
1518	AMA Communications, LLC			AS6620
1519	PVDataNet AB		X	AS42201
1520	EMDYN AG		X	AS200308
1521	Dr.-Ing. Nepustil & Co. GmbH Internet Service Center Ingenieurgesellschaft fuer Systemsoftware und Kommunikationstechnik		X	AS12502
1522	KOREX networks, s.r.o.		X	AS57710
1523	Mobile Telecommunication Company Saudi Arabia Joint-Stock company		X	AS43766
1524	Aruba SAS		X	AS199653
1525	Supply Frame, Inc.			AS62698
1526	Binero AB		X	AS35041
1527	GBC GmbH Internet Service Center Ingenieurgesellschaft fuer Systemsoftware und Kommunikationstechnik			AS24766
1528	Nerdherrschaft GmbH			AS49603
1529	ITSG Informationstechnische Servicestelle der Gesetzlichen Krankenversicherung GmbH		X	AS204188
1530	US Electrodynamics, Inc.			AS394492
1531	Flat/Rm 1707			AS56302
1532	Slic Network Solutions, Inc			AS15065
1533	Internetnord AB		X	AS206774
1534	Proactivity Group Limited			AS212147
1535	Rapiddot Hosting Services Ltd		X	AS202954
1536	RACKNATION S.A.		X	AS264763
1537	Texa S.p.A.		X	AS206455
1538	Gothaer Systems GmbH		X	AS34564
1539	REACH4 Communications		X	AS27298
1540	Kering SA			AS15422
1541	Voxology Carrier Services, Inc.		X	AS40165
1542	Sistemas Inalambricos S.A		X	AS264676
1543	S2B-NET SARL			AS212636
1544	Headquarters, USAISC			AS1523
1545	Cruise LLC			AS19755
1546	Ministero della Difesa		X	AS210026





1545	Cruise LLC	November 5, 2024		
1546	Ministero della L	10:08 PM		
1547	Broadridge Trading and Connectivity Solutions AB			AS205332
1548	Capital Telecom Limited Company			AS48249
1549	Aervivo, Inc		X	AS399672
1550	The Trade Desk, Inc.			AS26459
1551	IBASIS INC.			AS18622
1552	ScienceSoft SIA			AS61277
1553	Enfusion LTD. LLC			AS14689
1554	Empirical Networks, Ltd.		X	AS29948
1555	AER-CA LLC			AS211914
1556	Europeer Ltd.		X	AS202746
1557	Datatrans AG			AS30935
1558	SCALEWAY S.A.S.		X	AS29447
1559	Xenius BVBA		X	AS203146
1560	KraftCom Service GmbH		X	AS12453
1561	ITsynergy Limited			AS44314
1562	ESUN TECHNOLOGY INTERNATIONAL CO., LIMITED		X	AS132166
1563	P4 Sp. z o.o.		X	AS201019
1564	Flashtalking, Inc.			AS398771
1565	ENEL S.p.A			AS202096
1566	INTERKVM HOST SRL			AS49678
1567	Hondutel		X	AS7727
1568	WIDE-NET II Sp. z o.o.			AS48659
1569	JSC ER-Telecom Holding			AS206661
1570	Zattoo AG		X	AS8302
1571	KAEMI GmbH		X	AS51834
1572	Nexsys Electronics, Inc.			AS4531
1573	Dominik Pohl		X	AS205846
1574	Icewood LLC		X	AS201119
1575	Tralios IT GmbH		X	AS216331
1576	AirIT Services GmbH		X	AS49220
1577	HUNTEL.NET		X	AS16604
1578	NeuStar, Inc.			AS7786
1579	QualityHosting AG		X	AS25260
1580	Continent 8 LLC		X	AS14537
1581	Beskid Media Sp. z o.o.			AS50467
1582	GoDaddy.com, LLC		X	AS398107
1583	LLC AVANTIA TELECOM			AS56701
1584	EuroByte LLC		X	AS210079
1585	CONSOLTEC SRL		X	AS49703

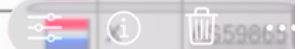


1582	GoDaddy.com, Inc.		X	AS210079
1583	LLC AVANTA T		X	AS49703
1584	EuroByte LLC		X	AS44786
1585	CONSULTIC SRL		X	AS53981
1586	Adobe Systems Software Ireland Ltd		X	AS395736
1587	TEXTPLUS, INC.		X	AS42841
1588	VMWare, Inc.		X	AS205508
1589	ANTIK Telecom s.r.o		X	AS20144
1590	VEON Wholesale Services B.V.		X	AS57660
1591	ICANN		X	AS14525
1592	Com4 AS		X	AS39560
1593	Stellar Technologies Inc.		X	AS51444
1594	KT-NET Communications GmbH		X	AS51290
1595	IT Lite LLC		X	AS59675
1596	BARTOSZ WASZAK trading as HOSTEAM S.C. TOMASZ GROSZEWSKI BARTOSZ WASZAK LUKASZ GROSZEWSKI		X	AS150436
1597	mywire Datentechnik GmbH		X	AS36236
1598	Byteplus Pte. Ltd.		X	AS51978
1599	NetActuate, Inc		X	AS12996
1600	WEMACOM Telekommunikation GmbH		X	AS215661
1601	Domeneshop AS		X	AS47583
1602	ANIXNICS LIMITED		X	AS213236
1603	Hostinger International Limited		X	AS394501
1604	Hetzner Online GmbH		X	AS26
1605	Crave Technologies Ltd.		X	AS206577
1606	Cornell University		X	AS11856
1607	Cellusys IoT Limited		X	AS35906
1608	XCONNECT TECH		X	AS1403
1609	Traiana, Inc		X	AS210905
1610	EBOX		X	AS22497
1611	Tutao GmbH		X	AS209323
1612	Lehigh WiFi LLC		X	AS43937
1613	Geneanet SAS		X	AS39671
1614	Playtech Estonia OU		X	AS51069
1615	Stonehage Fleming SA		X	AS29946
1616	Volodymyr Shtark		X	AS63182
1617	Union Wireless		X	AS58182
1618	RapidScale, Inc		X	AS7483
1619	Wix.com Ltd		X	
1620	APNIC ASN block		X	





1631	APNIC ASN bl	November 5, 2024		
1632	Symphony Solu	10:08 PM		
1633	Geckonet Sp. z o. o.		X	AS19840
1634	George Mason University		X	AS11279
1635	PC ONLINE		X	AS270179
1636	Comtegra S.A.			AS215875
1637	Promarket Computers Sp. z o.o.			AS51960
1638	adjust		X	AS396535
1639	Oscar Music & Media Ltd.		X	AS47998
1640	CITADEL ENTERPRISE AMERICAS LLC			AS13631
1641	WHG Hosting Services Ltd			AS204800
1642	CloudFerro S.A		X	AS200217
1643	Netsite A/S		X	AS205206
1644	DODW Holding B.V.		X	AS61029
1645	Latin IP LLC			AS40731
1646	Telx		X	AS53933
1647	SIA Tet			AS6747
1648	Gastabudstaden AB		X	AS43012
1649	Junction Networks, Inc.		X	AS40185
1650	Tiggee LLC		X	AS16552
1651	47-2339071			AS394996
1652	Sky Italia srl		X	AS60772
1653	Leaseweb USA, Inc.		X	AS396362
1654	UpCloud USA Inc		X	AS25697
1655	Roman Franz Dissauer trading as RDI Solutions e.U.		X	AS211510
1656	SPIE ICS SASU		X	AS204273
1657	PAYONE GmbH			AS212603
1658	SECOMMERCE GmbH			AS43467
1659	Nutanix, Inc			AS64266
1660	Cloud Provider USA, LLC.			AS46518
1661	Sportradar AG			AS60385
1662	Age of Learning, Inc.		X	AS395423
1663	T-MOB LLC			AS202498
1664	DigitalMonks LLC		X	AS400006
1665	AlTelecom S.A. de C.V.			AS28396
1666	Proofpoint, Inc.		X	AS13916
1667	IPsoft			AS14922
1668	Ivent Mobile bv		X	AS59865
1669	METRO Cash & Carry LLC			AS34381
1670	Beeks Financial Cloud Ltd			AS206934
1671	Netwise Hosting Ltd			AS17523

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1667	h soft			AS141672
1668	Ivent Mobile bv			AS34381
1669	METRO Cash & Carry LLC			AS206934
1670	Beeks Financial Cloud Ltd			AS47823
1671	Netwise Hosting Ltd			AS262210
1672	VIETTEL PER S.A.C.		X	AS54528
1673	Richie Software USA, Inc.		X	AS398013
1674	NGX Networks		X	AS46192
1675	SWBC			AS40627
1676	RingCentral Inc			AS57530
1677	GPM Radio LLC			AS15844
1678	true global communications GmbH			AS11734
1679	Connectria		X	AS53831
1680	Squarespace, Inc.			AS54535
1681	Nike, Inc.			AS27930
1682	Shadwell International Inc		X	AS205956
1683	Global Network Point LLC		X	AS2635
1684	Automatic, Inc		X	AS53855
1685	Ripple			AS32590
1686	Valve Corporation		X	AS9264
1687	Academia Sinica		X	AS49283
1688	Setera Oy			AS19380
1689	C.H. ROBINSON WORLDWIDE, INC.			AS210892
1690	Lightspeed Networks Ltd		X	AS18465
1691	Workday, Inc.			AS61960
1692	INTERNOD LLC			AS50966
1693	LLC Intercom		X	AS395512
1694	GLOBALHOSTINGSOLUTIONS INC		X	AS33932
1695	Minorisa de Sistemas Informaticos y de Gestion, S.L.		X	AS12888
1696	Amadeus Data Processing GmbH			AS214319
1697	blackpoint GmbH			AS203501
1698	Emarsys North America, Inc			AS265530
1699	FIBRATV SA DE CV			AS25545
1700	Avanza Bank AB			AS215116
1701	LLC IT Business		X	AS206673
1702	Sberbank-Telecom LLC			AS198912
1703	Societe Internationale de Telecommunications Aeronautiques		X	AS41802
1704	Limited Liability Company Kvidex-Telecom			AS35268
1705	UNITED INTERNET SRI			AS44656
1706	2provide GmbH		X	





1705	UNITED INTEF		X	AS244000
1706	2provide GmbH			AS244000
1707	GROUPE CANAL+ S.A.		X	AS29264
1708	Gdlicanet, S.A. de C.V.		X	AS28408
1709	Axians AB			AS20514
1710	VS Media Inc.			AS395412
1711	MTX Connect S. a r.l.		X	AS61327
1712	Bicom Systems Limited		X	AS201902
1713	OOO 24 chasa TV		X	AS50775
1714	RUTRONIK Elektronische Bauelemente GmbH		X	AS48132
1715	Bikupa Datacenter AB			AS216347
1716	IT7 Networks Inc			AS25820
1717	AgotoZ HK Limited			AS141167
1718	Amobee EMEA Limited		X	AS56396
1719	Akamai International B.V.			AS200005
1720	Greysom Limited		X	AS12678
1721	ETN Internet GmbH & Co. KG		X	AS44180
1722	MOD Mission Critical, LLC		X	AS54103
1723	Code BGP Single Member P.C.		X	AS50414
1724	PurePeak Ltd.			AS20645
1725	Udasha S.A.		X	AS263744
1726	Otsuka America Pharmaceutical, Inc.			AS29716
1727	JSC Telsi			AS48225
1728	x-ion GmbH			AS60664
1729	Wiztel USA Inc.			AS33441
1730	Digital Transformation Plus LLC			AS205830
1731	VMCity LLC		X	AS51093
1732	SEDO GmbH		X	AS47846
1733	Active Network S.p.A.		X	AS197075
1734	BDO AG Wirtschaftspruefungsgesellschaft			AS199801
1735	Equinix, Inc.		X	AS29884
1736	IBASIS INC.			AS13556
1737	eNET Inc.		X	AS10297
1738	Volkswagen Financial Services Overseas AG		X	AS205505
1739	eStruxture Data Centers Inc.		X	AS55066
1740	TradingView, Inc.			AS400416
1741	NSONE INC.		X	AS136468
1742	KVH INDUSTRIES, INC.			AS25687
1743	United Data Technologies, Inc.		X	AS20335
1744	DUPTeCom GmbH		X	AS62236
1745	Amias Inc.		X	AS34403



1741	NSONE INC.	November 5, 2024		
1742	KVH INDUSTRIES INC	10:08 PM		
1743	United Data Technologies, Inc.			X AS20335
1744	PURtel.com GmbH			X AS62336
1745	Afilias, Inc.			X AS63403
1746	Mid-Rivers Telephone Cooperative			X AS11961
1747	Cygrids Communications AB			X AS34941
1748	GBN group Ltd			AS35112
1749	RelINFO Solutions LLC			AS208757
1750	Aruba SAS			X AS200185
1751	Net Solutions - Consultoria Em Tecnologias De Informacao, Sociedade Unipessoal LDA			X AS47674
1752	LiveSport s.r.o.			X AS52130
1753	Guadalupe Valley Telephone Cooperative, Inc.			X AS16527
1754	TriOptima AB			X AS28931
1755	Reedsburg Utility Commission			AS62759
1756	HostDime.com, Inc.			X AS33182
1757	B.Root-Server-OPS			X AS394355
1758	Hetzner Online GmbH			X AS212317
1759	Joe Wheeler EMC			X AS399045
1760	Giganet - Instalacje Mariusz Zmyslowski			AS206045
1761	AO Publishing House Seven Days			AS44595
1762	Netrouting, Inc.			X AS63339
1763	Neue Medien Muennich GmbH			AS34788
1764	Sys-DataCom s.r.o.			AS44002
1765	Anisimov Mikhail Mikhailovich			AS39410
1766	Foothills Broadband, LLC			X AS54696
1767	PaeDae, Inc.			AS30419
1768	Complior AB			X AS49949
1769	WEBORAMA SA			AS12516
1770	DIGIFINANCE OU			AS210283
1771	Aryaka Networks, Inc.			X AS11179
1772	SMC Corporation of America			AS54896
1773	Norrlands Online AB (publ)			X AS211434
1774	Twilio Inc			AS394434
1775	Inter Krankenversicherung AG			X AS210333
1776	Corebach Backbone SARL			AS328867
1777	Elite Systems, LLC			AS40181
1778	LLC RTI			AS199394
1779	Norsitel GmbH			AS56567





1774	Twilio Inc	November 5, 2024 10:08 PM			
1775	Inter Krankenversicherung AG			X	AS210333
1776	Corebach Backbone SARL				AS328861
1777	Elite Systems, LLC				AS40181
1778	LLC RTL				AS199394
1779	Norsitel GmbH				AS56567
1780	ESSENSYS (UK) Ltd.				AS48273
1781	Nvidia Corporation				AS20347
1782	Freja eID Group AB			X	AS205916
1783	Dropbox, Inc.			X	AS19679
1784	SOUTH EAST ASIA TELECOM (Cambodia) Co., LTD				AS55769
1785	APPRISS INC			X	AS19783
1786	Cologix, Inc				AS46672
1787	INTERNET CZ, a.s.			X	AS24806
1788	Xaccel Networks LLC			X	AS33089
1789	UnitedLayer, LLC			X	AS399819
1790	LLC PioneerNet				AS47323
1791	Booking.com BV			X	AS43996
1792	Moody's Corp.			X	AS17350
1793	Hill Country Telephone Cooperative, Inc.				AS23481
1794	Tendence LLC				AS49179
1795	Telenor Connexion AB			X	AS49222
1796	Trustly Group AB				AS56946
1797	1Access Sweden AB			X	AS57773
1798	Photonium NetSolutions GmbH				AS31572
1799	Stadt Zuerich, Organisation und Informatik			X	AS201319
1800	Saba Software Inc.				AS53930
1801	BIF IV			X	AS394056
1802	EXNESS LIMITED				AS56683
1803	UkrNet Ltd.				AS8856
1804	SolidNetwork Technologies, Inc.			X	AS14401
1805	Noehmer GmbH				AS60517
1806	Maxima Ltd.				AS42104
1807	Unity Technologies ApS				AS35028
1808	PJSC Rostelecom				AS42610
1809	XK NET S.A. DE C.V.			X	AS265619
1810	Kivra AB				AS208662
1811	Viaplay Group Sweden AB				AS202093
1812	DIGITAIN LLC				AS213134





1807	Unity Technolo	November 5, 2024		
1808	PJSC Rostelecom	10:08 PM		
1809	XK NET S.A. DE C.V.			X AS265619
1810	Kivra AB			AS208662
1811	Viaplay Group Sweden AB			AS202093
1812	DIGITAIN LLC			AS213134
1813	Interactive Network Communications GmbH			AS39257
1814	JSC Gloria-Jeans			AS56741
1815	North Georgia Network Cooperative, Inc.			X AS54665
1816	OpenCarrier eG			AS41692
1817	Sauce Labs Inc			AS62537
1818	Citytelecom LLC			AS204825
1819	EANCENTER TELECOM LLC			AS206943
1820	Eaton Vance Management			AS23050
1821	Base IP B.V.			X AS205467
1822	Conapto AB			X AS49079
1823	Abzieher GmbH			X AS205925
1824	Whipcord Ltd.			AS33549
1825	WHG Hosting Services Ltd			AS209341
1826	ADDIX GmbH			X AS25415
1827	UnitedLayer, LLC			X AS399817
1828	NSONE Inc			X AS395403
1829	WILO SE			X AS208927
1830	MUFG Securities EMEA PLC			AS8651
1831	LoadEdge Limited			X AS32708
1832	WCS			AS46454
1833	Marcin Moczulski trading as Matronix			AS51310
1834	SwissIX Internet Exchange			X AS20612
1835	LINK Mobility GmbH			AS197975
1836	Headquarters, USAISC			AS1492
1837	Leaseweb UK Limited			X AS205544
1838	GoDaddy.com, LLC			X AS397515
1839	Gorizont-Telecom LTD			AS43678
1840	Managing Company Financial and Construction Corporation North-West Ltd			AS211930
1841	Plus Creativo LLC			X AS205940
1842	GRAIN COMMUNICATIONS LIMITED			X AS199468
1843	Cablemas Telecomunicaciones SA de CV			X AS28555
1844	NAYVER BUSINESS PLATFORM ASIA PACIFIC PTE. LTD.			AS135354
1845	Computacenter France SAS			AS5436





1841	Plus Creativo L		X	AS20500
1842	GRAIN COMMUNICATIONS LIMITED		X	AS19946
1843	Cablemas Telecomunicaciones SA de CV		X	AS28555
1844	NAVER BUSINESS PLATFORM ASIA PACIFIC PTE. LTD.			AS135354
1845	Computacenter France SAS			AS5436
1846	BEDGE CO LIMITED		X	AS63139
1847	Altruista Health, Inc			AS396205
1848	HBO Holding Uzletviteli Tanacsado Csoport Zrt.			AS201566
1849	Fibra AB		X	AS205151
1850	1. FSV Mainz 05 e.V.			AS202730
1851	UpCloud Ltd		X	AS202053
1852	Turn Inc.		X	AS6336
1853	XTX Markets Limited			AS211029
1854	Ruform LLC			AS207353
1855	IT Lite LLC			AS204336
1856	Altima Telecom			AS396336
1857	velia.net Internetdienste GmbH			AS29066
1858	Webpass Inc.		X	AS19165
1859	Terrakom d.o.o.			AS34362
1860	Private National Mortgage Acceptance Company LLC			AS14012
1861	Campus, Hofnetz & Events GmbH			AS202495
1862	Multi-payment system LLC			AS61378
1863	Sky Italia srl		X	AS210276
1864	LeaseWeb Netherlands B.V.		X	AS60781
1865	Interconnect Ltd.			AS39867
1866	BBC		X	AS2818
1867	VEV Romerike AS		X	AS43568
1868	Power & Telco SRL			AS206701
1869	Join-stock company Internet ExchangeMSK-IX		X	AS44522
1870	dogado GmbH			AS47215
1871	MODIRUM MDPAY OU		X	AS62248
1872	CBS Interactive Inc.		X	AS6623
1873	HK Broadband Network Ltd.			AS10103
1874	INFORMATICA FUENTEALBILLA S.L.		X	AS200773
1875	Cloudflare Inc		X	AS202623
1876	Redpill Linpro AS		X	AS39029
1877	K2 Integration JSC		X	AS51219
1878	TWO SIGMA INVESTMENTS, LP			AS36671
1879	Teracom AB			AS213195



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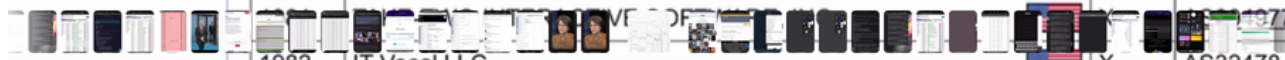
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1877	K2 Integration JSC			AS36671
1878	TWO SIGMA INVESTMENTS, LP			AS213195
1879	Teracom AB			AS25374
1880	ESCOM Ltd. - Haskovo		X	AS209366
1881	SEMrush CY LTD			AS398025
1882	Cumberland Connect			AS7862
1883	Chevron Corporation		X	AS16940
1884	Aspect Software, Inc.			AS12229
1885	SAS Institute, Inc.			AS47791
1886	Electronic Arts Limited			AS12512
1887	CBXNET combox internet GmbH		X	AS14907
1888	Wikimedia Foundation Inc.		X	AS26278
1889	Bluetone Communications, LLC.			AS204020
1890	Fenice Telekom Grupa d.o.o.		X	AS41690
1891	Dailymotion S.A.		X	AS11608
1892	Accretive Networks			AS55222
1893	9219-1568 Quebec Inc.		X	AS51545
1894	zsah Limited			AS48719
1895	Intelsvyaz Ltd.			AS50183
1896	CenturyNetworks Ltd			AS26356
1897	CRUSOE ENERGY SYSTEMS LLC			AS265645
1898	HOSTINGFOREX S.A.			AS10794
1899	Bank of America, National Association			AS43519
1900	Nominet UK		X	AS30923
1901	Młodzieżowa Spółdzielnia Mieszkaniowa		X	AS18516
1902	Molalla Communications Systems Inc.			AS265540
1903	ALTAN REDES, S.A.P.I. de C. V.		X	AS53850
1904	GorillaServers, Inc.		X	AS49024
1905	TechniData TCC Products GmbH		X	AS39526
1906	Mohammad Ali Obeidat		X	AS199244
1907	InterXion Hrvatska d.o.o.			AS207821
1908	Open Infra ISP Production International AB		X	AS13926
1909	NETPROTECT PHX		X	AS197665
1910	CloudCall LTD		X	AS210805
1911	Open Infra ISP Production International AB			AS109
1912	CISCO SYSTEMS, INC.		X	AS39090
1913	Brandl Services GmbH		X	AS35834
1914	CCP ehf.			



1910	CloudCall LTD			AS410809
1911	Open Infra ISP Produktion International AB			AS410809
1912	CISCO SYSTEMS, INC.		X	AS109
1913	Brandl Services GmbH		X	AS39090
1914	CCP ehf.			AS35834
1915	LMAX Digital Group Limited			AS39498
1916	Beaming Ltd		X	AS48620
1917	catalyst2 Services Limited		X	AS29636
1918	E-Cho Sp. z o.o.			AS198230
1919	Telx		X	AS53939
1920	Jackson County Rural Electric Membership Corporation			AS31875
1921	CW HOLDINGS, S.A.			AS265753
1922	Infoself Sistemas SL			AS51621
1923	NortonLifeLock Inc.		X	AS16733
1924	Consolidated Smart Systems LLC			AS14978
1925	Nicepeopleatwork, S.L.		X	AS207415
1926	Extrahost s.r.o		X	AS199733
1927	Waddell Solutions Group LLC		X	AS12243
1928	TIMOCOM GmbH		X	AS24909
1929	SEWAN SAS		X	AS8399
1930	Occino GmbH			AS15925
1931	Extraordinary Managed Services Ltd		X	AS30827
1932	Nuclearfallout Enterprises, Inc.		X	AS32374
1933	Germania Sport d.o.o.			AS198565
1934	NOVAMETRO OU			AS207815
1935	JSC Agency of Economical Information Prime			AS34853
1936	Stephan Fuss trading as SoftCom Datensysteme		X	AS12759
1937	GitHub, Inc.		X	AS36459
1938	Keepit A/S		X	AS215782
1939	Ecotel, Ltd.			AS64419
1940	Support Servers LLC		X	AS205763
1941	GLOBAL COLOCATION LIMITED			AS48950
1942	Suomen Kuntaliitto ry			AS200996
1943	Syscomm Limited		X	AS56990
1944	Censys, Inc.		X	AS398705
1945	retarus GmbH		X	AS48328
1946	Morae Global			AS398198
1947	LIWEST Kabelmedien GmbH		X	AS12605
1948	XR Trading LLC			AS46436



1942	Suomen Kunta		X	AS200...
1943	Syscomm Limited		X	AS56990
1944	Censys, Inc.		X	AS39870
1945	retarus GmbH		X	AS48328
1946	Morae Global			AS39819
1947	LIWEST Kabelmedien GmbH		X	AS12605
1948	XR Trading LLC			AS46436
1949	Writing Tools			AS211126
1950	Focus Broadband		X	AS33749
1951	LanCraft Ltd.			AS47923
1952	Leissner Data AB		X	AS49292
1953	Leaseweb USA, Inc.		X	AS19148
1954	Tech Solutions LLC			AS21231
1955	P-KOM Telekommunikationsgesellschaft mbH		X	AS209707
1956	Prager Connect GmbH		X	AS57878
1957	Twitter Inc.			AS63179
1958	TAU INTERNET Sp. z o.o.			AS47850
1959	Clear Path Networks Inc			AS45754
1960	Akamai Technologies, Inc.		X	AS35994
1961	Utah Broadband LLC		X	AS32808
1962	TREND MICRO INCORPORATED		X	AS16880
1963	IP WAY LLC			AS56443
1964	Adjust GmbH		X	AS61273
1965	MPCNET SP. Z O.O.			AS56869
1966	Oracle Corporation		X	AS1218
1967	Internet-Cosmos LLC			AS34300
1968	P.H.U. MOKADI Wiesława Kazmierczak			AS51079
1969	Joint Stock Company Medsi group			AS20629
1970	marbis GmbH		X	AS19961
1971	BPS Inc.		X	AS59110
1972	WebMD, LLC			AS46617
1973	Stolica Telecom Ltd.			AS62366
1974	ETES GmbH		X	AS20589
1975	East & West Sp. z o.o.			AS43118
1976	Pinterest, Inc.		X	AS53620
1977	Eis S.r.l.			AS56488
1978	SCALEWAY S.A.S.		X	AS12876
1979	Heptabit GmbH			AS20777
1980	Afilias, Inc.		X	AS12041





1972	WebMD, LLC			
1973	Stolica Telecon			
1974	ETES GmbH		X	AS205890
1975	East & West Sp. z o.o.			AS43118
1976	Pinterest, Inc.		X	AS53620
1977	Eis S.r.l.			AS56488
1978	SCALEWAY S.A.S.		X	AS12876
1979	Heptabit GmbH			AS207773
1980	Afilias, Inc.		X	AS12041
1981	TAKE-TWO INTERACTIVE SOFTWARE, INC.		X	AS394977
1982	IT Vocal LLC		X	AS32478
1983	Take-Two Interactive Software, Inc.			AS202021
1984	Tismi BV			AS62167
1985	INTERNET COMMUNICATIONS INC.			AS394356
1986	Salt Mobile SA		X	AS15796
1987	Bigleaf Networks, Inc.			AS62642
1988	cyberways Informationsdienste GmbH		X	AS13132
1989	Ministerie van Veiligheid en Justitie		X	AS35709
1990	Trytek LLC			AS44056
1991	NetNordic Sweden AB			AS207932
1992	LiveOak Fiber		X	AS395035
1993	Hivelocity LLC		X	AS61317
1994	SilesNet s.r.o.			AS43709
1995	Expereo International BV		X	AS202120
1996	360 Condominiums			AS400182
1997	Vodafone GmbH		X	AS3209
1998	Digita Oy		X	AS48299
1999	Cronos Internet Ltd		X	AS59565
2000	Privredno drustvo za trgovinu i usluge STEPANOVIC & SIPKA			AS43281
2001	DEMANDO GmbH			AS196815
2002	Xandr Inc.		X	AS29990
2003	APNIC ASN block			AS135377
2004	Data-Beam Business Solution			AS150000
2005	crossconcept GmbH		X	AS202784
2006	Net-D-Sign GmbH		X	AS57537
2007	Xenon Ventures, LLC			AS14378
2008	VSIX.FR		X	AS29774
2009	Global Radio Limited		X	AS39202
2010	Flowmailer B.V.			AS50018
2011	Accretive Networks			AS36182



2003	APNIC ASN bloc			
2004	Data-Beam Bus			
2005	crossconcept GmbH		X	AS20278
2006	Net-D-Sign GmbH		X	AS57537
2007	Xenon Ventures, LLC			AS14378
2008	VSIX.FR		X	AS29774
2009	Global Radio Limited		X	AS39202
2010	Flowmailer B.V.			AS50018
2011	Accretive Networks			AS36182
2012	RADWARE INC.		X	AS25773
2013	Ibertic Soluciones, S.L.			AS44466
2014	Bytedance Inc.		X	AS396986
2015	REGISTRANT LLC			AS210494
2016	Disney Streaming Services		X	AS22604
2017	Global IP Networks INC			AS54720
2018	proinity GmbH		X	AS44239
2019	Gigaclear Limited		X	AS56329
2020	Capgemini U.S. LLC			AS10991
2021	Sewan Belgium SA		X	AS196755
2022	TAS France SAS		X	AS8554
2023	Red Matter Limited		X	AS209635
2024	VIVID-HOSTING LLC			AS64200
2025	GiTy, a.s.		X	AS29086
2026	Ericsson Inc.		X	AS158
2027	Uniscale Denmark ApS			AS212045
2028	Orange S.A.		X	AS2280
2029	Alianza Inc.		X	AS54900
2030	Baby Penguin LLC			AS396873
2031	NSONE Inc		X	AS62597
2032	TELERYS COMMUNICATION SAS		X	AS205344
2033	ROAMABILITY LLC			AS395828
2034	Proact IT UK Limited			AS62313
2035	Cloudnet Computing Ltd			AS213202
2036	Instra Corporation Pty Ltd			AS133104
2037	BLUEZONE INTERNET INC			AS55025
2038	netgo tax GmbH		X	AS58323
2039	Sedmi Odjel d.o.o.		X	AS198785
2040	Limited Liability Company MVM Technology		X	AS41349
2041	Gigabit Communications LLC			AS62917
2042	Macalester College			AS33692

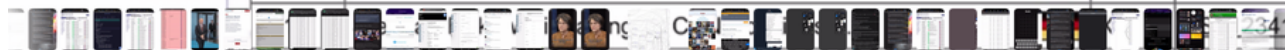


2038	netgo tax GmbH			
2039	Sedmi Odjel d.o.o.			
2040	Limited Liability Company MVM Technology		X	AS41349
2041	Gigabit Communications LLC			AS62917
2042	Macalester College			AS33692
2043	Leaseweb USA, Inc.		X	AS395954
2044	Thales Cloud Securise SAS		X	AS202045
2045	OOO Teleport-Service Regions			AS42988
2046	Faction			AS14701
2047	SOUTHWEST MINNESOTA BROADBAND SERVICES			AS25715
2048	Sonic.net, LLC		X	AS7065
2049	GVM Sistem 2003 SRL			AS57217
2050	Nokia of America Corporation			AS10455
2051	Opus Interactive		X	AS14722
2052	NEXT GLOBAL SERVICES L.P.			AS204135
2053	Tesla Motors, Inc.			AS394161
2054	I.P. Integration Limited		X	AS39208
2055	Index Exchange Inc.		X	AS27381
2056	Josef Edtbauer e.u.			AS39372
2057	Archtop Fiber		X	AS32723
2058	The Rubicon Project, Inc.		X	AS26667
2059	VIXLY AS		X	AS44654
2060	Fontel S.p.A.			AS39808
2061	SNAPPYDSL.NET			AS10302
2062	OVIS IT Consulting GmbH		X	AS48303
2063	Region Svyaz Konsalt LLC		X	AS39264
2064	Voiped Wholesale BV		X	AS204805
2065	NEXGEN NETWORKS			AS30524
2066	Core & Main			AS35865
2067	Docusign, Inc			AS62856
2068	Microsoft Corporation			AS8069
2069	HORISEN AG			AS42128
2070	Mega Truenet Communication Co., Ltd.			AS139628
2071	Workday Limited			AS198301
2072	Informatsionniye Systemy i Tekhnologii CJSC.			AS16323
2073	Fiber Optical Network LLC			AS6282
2074	NETASSIST LLC		X	AS398695
2075	JSC Ratmir-ADS			AS29503
2076	Elevated Computing LLC			AS394382
2077	CloudCall Inc		X	AS32334





2072	Informatsionniy System Technology JSC.			AS6282
2073	Fiber Optical Network LLC			AS39869
2074	NETASSIST LLC		X	AS29503
2075	JSC Ratmir-ADS			AS394382
2076	Elevated Computing LLC			AS32334
2077	CloudCall Inc		X	AS49915
2078	Megaport (UK) Limited		X	AS207161
2079	Nagravision SA		X	AS42567
2080	MOJOHOST B.V.		X	AS24202
2081	PT. PASIFIKTEL INDOTAMA		X	AS23154
2082	Sanmina-SCI Corporation			AS202276
2083	IBOSS, INC		X	AS54801
2084	Zillion Network Inc.			AS50239
2085	SOFTNET TELEKOM BIELINSKA sp.j.			AS40785
2086	Omniva LLC		X	AS27347
2087	Datapro Telecom Solutions LLC			AS13280
2088	Three Ireland (Hutchison) limited			AS150347
2089	Planisware Singapore Pte. Ltd			AS264850
2090	TODAS LAS REDES SA		X	AS50319
2091	Dustin NL B.V.			AS59584
2092	INDIKOM LLC		X	AS210015
2093	Interface Services LLC		X	AS20886
2094	bn:t Blatzheim Networks Telecom GmbH		X	AS43502
2095	OOO Torgovij Dom EPK			AS211406
2096	CLOUD PROVIDER LLC			AS51822
2097	SOPREMA SAS			AS56805
2098	Global Technology & Sports Ltd			AS39227
2099	Corpex Internet GmbH			AS394646
2100	Eagle Eye Networks, Inc			AS48851
2101	Radware Ltd		X	AS39783
2102	Webhuset AS		X	AS198216
2103	horizon teleports GmbH			AS212804
2104	Open Infra ISP Production International AB		X	AS11377
2105	SendGrid, Inc.			AS203228
2106	Greenfiber Internet & Dienste GmbH		X	AS398535
2107	Identidad Telecom			AS205627
2108	Daimler Truck AG		X	AS21040
2109	Datapark AG		X	AS36218
2110	WHG Hosting Services Ltd			



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2108	Daimler Truck A			
2109	Datapark AG			
2110	WHG Hosting Services Ltd			AS36218
2111	Stephan Rakowski, trading as CSN Solutions e.K.		X	AS212341
2112	Zeofast Network		X	AS10111
2113	DomoLAN Ltd.		X	AS49368
2114	CATO NETWORKS LTD			AS13150
2115	GULFSATCOMMUNICATIONS COMPANY K.S.C.		X	AS25122
2116	Metsaliitto Osuuskunta			AS201991
2117	Cisco OpenDNS, LLC		X	AS36692
2118	CloudNX		X	AS139648
2119	EVault INCORPORATED		X	AS33459
2120	Electronic Arts Limited			AS207602
2121	Atlantic LLC.		X	AS204600
2122	Edge Technology Plus d.o.o. Beograd		X	AS208398
2123	Vitrifi Limited		X	AS211393
2124	Treadstone Business Development S.R.L.			AS210878
2125	LinkedIn Corporation		X	AS13443
2126	Smarsh Inc			AS32546
2127	Red Bee Media B.V.			AS200587
2128	Wantech AB		X	AS39648
2129	trivago N.V.		X	AS198018
2130	702 Communications		X	AS15267
2131	Wanstor Ltd		X	AS2589
2132	InTouch Health		X	AS395355
2133	SNCF Connect & Tech Services SASU			AS205555
2134	SOUTH DAKOTA NETWORK		X	AS393417
2135	HOSTERION SRL		X	AS43927
2136	BAM Broadband Opco, LLC		X	AS20303
2137	OOO Scientific-Production Enterprise Edma			AS48036
2138	LF.net Netzwerksysteme GmbH		X	AS12374
2139	INNOVA SOLUTIONS S.A. DE C.V.			AS269960
2140	MorePeering		X	AS399794
2141	APNIC ASN block			AS136744
2142	United Cooperative Services		X	AS1448
2143	Game-Hosting GH AB			AS198347
2144	Edgecast Inc.		X	AS14210
2145	Denis Dmitrievich Galyamin			AS204576
2146	Citytelcom LLC		X	AS28762
2147	NuCDN LLC		X	AS23393

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2209	WICOM TELE			AS2649...
2210	BASIS LLC		X	AS206761
2211	dhosting.pl Sp. z o.o.			AS48896
2212	Freewheel Media Inc.		X	AS26558
2213	FINALTO TRADING LIMITED			AS202176
2214	MEGA Cloud Services Limited		X	AS205809
2215	KOESIO Networks SAS			AS197653
2216	WhiteLabel IT Solutions Corp		X	AS394625
2217	Dimensione S.r.l.		X	AS202870
2218	MEGA M, d.o.o.		X	AS12778
2219	TERACOM COMMUNICATIONS (PTY) LTD			AS209167
2220	Connect Managed Services (UK) Limited			AS198781
2221	Consolidated Smart Systems LLC		X	AS396106
2222	My Tech BZ			AS52449
2223	ESTRACOM SPA		X	AS31319
2224	Adam Ryszewski trading as AR-NET			AS199336
2225	Gameforge 4D GmbH		X	AS47195
2226	NVIDIA Ltd			AS50889
2227	Renault Trucks SAS			AS39771
2228	Datacenter Luxembourg S.A.		X	AS203055
2229	PEG TECH INC			AS36137
2230	NEXT LEVEL INTERNET, INC.			AS16582
2231	MTI Teleport Muenchen GmbH Gesellschaft fur Satellitenubertragungen		X	AS199421
2232	TELNAP TELECOM Sp. z o.o.			AS43372
2233	Luke Eiji Granger-Brown		X	AS205475
2234	GVEC.net, LLC		X	AS18859
2235	E-CAPS D.O.O		X	AS203752
2236	LLC Ostankino Telecom			AS50822
2237	Atman Sp. z o.o.		X	AS24723
2238	pearlabyss			AS38090
2239	Luxembourg House of Cybersecurity		X	AS197865
2240	Artfiles LLC		X	AS394923
2241	LightEdge Solutions LLC			AS149813
2242	ANTEMETA SAS		X	AS201085
2243	Thales Cloud Securise SAS		X	AS203532
2244	Bel Air Internet, LLC			AS23316
2245	Acronis International GmbH		X	AS35793
2246	Petit Telecom B.V.			AS197156
2247	AT&T Co			AS2687
2248	TOURINK ORGANIZATION LLC			AS57586



2142	United Cooperative			AS13834
2143	Game-Hosting G			AS13834
2144	Edgecast Inc.		X	AS14210
2145	Denis Dmitrievich Galyamin			AS204576
2146	Citytelecom LLC		X	AS28762
2147	NuCDN LLC		X	AS23393
2148	L3 NETWORKS INC			AS22687
2149	Dynascale Inc.			AS397805
2150	Ewart Technologies, Inc.			AS20388
2151	CoreWeave, Inc			AS33425
2152	JS Company Compnet			AS24680
2153	B2B2C Inc		X	AS16532
2154	Finalto A/S		X	AS197190
2155	CZ.NIC, z.s.p.o.		X	AS200070
2156	Xserver Inc.		X	AS131965
2157	Lemuria Communications Inc.			AS7366
2158	Ori Industries 1 Limited		X	AS50489
2159	ITB Sp. z o.o.			AS59782
2160	LTech Solutions, Ltd.		X	AS39937
2161	PRONSS			AS22006
2162	Currenta GmbH & Co. OHG		X	AS200768
2163	Sangoma US Inc.			AS16795
2164	Citytelecom LLC			AS204035
2165	San Francisco Metropolitan Internet Exchange (SFMIX)		X	AS12276
2166	APNIC ASN block			AS7589
2167	Telefonaktiebolaget L M Ericsson		X	AS28852
2168	PixelRiver			AS36591
2169	Nvidia Corporation		X	AS11414
2170	Bitrise			AS36480
2171	Jack Fillan		X	AS207080
2172	Aruba S.p.A.		X	AS205727
2173	MidSouth Fiber		X	AS398203
2174	Backbone Solutions AG		X	AS13250
2175	TORNADO TELECOM S.R.L.			AS49964
2176	Eonix Corporation			AS62904
2177	noris network AG			AS8222
2178	DeepL SE		X	AS60550
2179	Prime creation events SAS		X	AS211733
2180	WEBO LLC			AS200430



2176	Eonix Corporat	November 5, 2024 10:08 PM			AS62900
2177	noris network AG				AS8222
2178	DeepL SE			X	AS60550
2179	Prime creation events SAS			X	AS211733
2180	WEBO LLC				AS200430
2181	Providus d.o.o.			X	AS43191
2182	ThreatSpike Labs Limited				AS211058
2183	Booking.com BV			X	AS202196
2184	ADVANCED SCHEMA SAS				AS205306
2185	UnitedLayer, LLC			X	AS399814
2186	Energie AG Oberoesterreich Services und Digital Solutions GmbH			X	AS56672
2187	ITAF BVBA			X	AS49285
2188	PubMatic, Inc.				AS62713
2189	link-lab GbR Schmidt Waehlich			X	AS51224
2190	Optimizely AB			X	AS30811
2191	Internet Cafe usluga informatyczne Mirosław Backiel				AS35787
2192	Vexus Fiber				AS11943
2193	iBasis, Inc.			X	AS11889
2194	C.S.T. Ltd.			X	AS62429
2195	PricewaterhouseCoopers GmbH WPG			X	AS50061
2196	Soluciones Favorables			X	AS263821
2197	Taiwan Telecom				AS38047
2198	Sattarov Albert Ildusovich				AS39805
2199	KMTelecom				AS32264
2200	North Texas Fiber, Inc			X	AS397161
2201	Free Range Internet LLC				AS400142
2202	SOLAREEDGE TECHNOLOGIES LTD.				AS205303
2203	Evalue, LLC			X	AS40916
2204	Arelion Sweden AB				AS8837
2205	Powerhouse Management, Inc.				AS22363
2206	Filippov Aleksei Vladilenovich				AS60098
2207	Invesco Group Services, Inc.			X	AS14630
2208	Excedo Networks AB			X	AS199150
2209	WICOM TELEFONICA S DE R.L.				AS264819
2210	BASIS LLC			X	AS206767
2211	dhosting.pl Sp. z o.o.				AS48896
2212	Freewheel Media Inc.			X	AS26558
2213	FINALTO TRADING LIMITED				AS202176
2214	MEGA Cloud Services Limited			X	AS205809
2215	ROGEE Networks AG				AS197053



2240	Artiles LLC			
2241	LightEdge Solu			
2242	ANTEMETA SAS		X	AS201084
2243	Thales Cloud Securise SAS		X	AS203532
2244	Bel Air Internet, LLC			AS23316
2245	Acronis International GmbH		X	AS35793
2246	Petit Telecom B.V.			AS197156
2247	AT&T Corp.			AS2687
2248	TOURLINK ORGANIZATION LLP			AS57586
2249	Beijing Xiaoju Science and Technology Co., Ltd.			AS63648
2250	team.blue Denmark A/S		X	AS43220
2251	Binero AB			AS60376
2252	NatCoWeb Corp.		X	AS46636
2253	i2 Technologies Inc.			AS14343
2254	Feral.io Ltd			AS200052
2255	Lite-Telecom Limited			AS49863
2256	LYCATEL DISTRIBUTION UK LIMITED			AS31404
2257	Rakuten Inc		X	AS54058
2258	Beeks Financial Cloud Ltd			AS206690
2259	Webinvest Plus LLC			AS205692
2260	TFM NETWORKS LIMITED			AS34790
2261	IPIPE International, Corp.		X	AS400513
2262	Electronic Arts Limited			AS206800
2263	Keepit A/S		X	AS9120
2264	Radoslaw Walentowski trading as Timplus B.Dudek R.Walentowski sp.j.			AS50349
2265	TEDRA GLOBAL SOLUTIONS S.L.		X	AS60917
2266	FairNetz GmbH			AS202046
2267	Ivstar Ltd		X	AS29588
2268	TELFAX COMMUNICATIONS SARL		X	AS209255
2269	BankOnIT, L.L.C.		X	AS46416
2270	NTT DATA Business Solutions sp. z o.o.			AS24740
2271	LINKINTEL Ltd.			AS47655
2272	MAGIT'ST SRL			AS49468
2273	FullSpace Ltd.		X	AS201495
2274	Gigacable de Aguascalientes, S.A. de C.V.			AS28376
2275	Encompass Digital Media, Inc.			AS7138
2276	Teracom AB			AS49769
2277	iboss,inc		X	AS396253
2278	ShowJet OOO			AS204271





2304	Jakala S.P.A.			
2305	Kering SA			
2306	STELLAR Broadband		X	AS10423
2307	Virtuozzo International GmbH			AS212374
2308	MobileOne Ltd. Mobile/Internet Service Provider Singapore		X	AS4773
2309	Castle Point Technologies, Inc			AS399560
2310	Velocihost Inc.		X	AS63452
2311	Headlands Technologies LLC			AS395151
2312	DRD Communications Limited			AS34967
2313	Joint Stock Company Rosgeologia			AS57996
2314	Peopelfone AG			AS205676
2315	Telegram Messenger Inc		X	AS59930
2316	RhythmOne, LLC		X	AS26120
2317	Privredno drustvo za trgovinu i usluge STEPANOVIC & SIPKA			AS210135
2318	Crowsnest IT Support LLC			AS397606
2319	TMTG			AS954
2320	Lime HD LLC		X	AS47481
2321	Suomi Communications Oy		X	AS206364
2322	Telia Cygate AB		X	AS197308
2323	H & M Hennes & Mauritz GBC AB			AS30821
2324	Clearly Communications		X	AS27400
2325	Semplify Srl			AS199325
2326	Jack Henry & Associates, Inc.			AS14010
2327	Keepit A/S		X	AS211633
2328	Stiegeler Internet Service GmbH		X	AS200924
2329	Pudu, LLC		X	AS47689
2330	METRO Digital GmbH		X	AS39290
2331	The Cloud Networks Germany GmbH			AS42390
2332	Intelcom Group Ltd			AS201118
2333	VoIP Tech, LLC			AS40890
2334	Hagloef & Nordkvist Internet AB			AS34133
2335	OJSC Kostroma Municipal Telephone Network			AS44507
2336	Orange Business Digital Sweden AB		X	AS8523
2337	Darktel llc			AS210447
2338	SOL Holdings Limited			AS203316
2339	Alarislabs Pte Ltd			AS202430
2340	GMCHOSTING LLC			AS19186
2341	Pulsepoint Inc			AS19189
2342	Wimero GmbH			AS203485
2343	Rumble USA Inc.		X	AS399647

